S2330.1

1978 Iowa Motor Vehicle Accidents

DEPARTMENT OF TRANSPORTATION IOWA

Office of Safety Programs

Iowa Department of Transportation
Office of Safety Programs
Lucas Building
Des Moines, Iowa 50319
(515) 281-5015

October 1979

rec Nov 20, 79 accepted S/920-1

Annual Estimate of Population for the State of Georgia

1978

State Data Center

OFFICE OF PLANNING & BUDGET

270 Washington Street, S. W., Atlanta, Georgia 30334

Telephone 404/656-2191

Clark T. Stevens, Director

George Busbee, Governor

Prepared by Tom Wagner & Brian Morrett

September 1979

The preparation of this document was financed in part through a comprehensive planning grant from the Department of Housing and Urban Development.

CPA-GA-04-00-1028.

Contents

METHODOLOGY OF POPULATION ESTIMATES	1
POPULATION ESTIMATES BY COUNTIES	4
MAP OF COUNTIES WITH A POPULATION 40,000 AND OVER	9
MAP OF COUNTIES WITH A 20% OR GREATER INCREASE IN POPULATION 1970-1978	10
MAP OF FIFTY LARGEST COUNTIES IN ABSOLUTE POPULATION INCREASE 1970-1978	11
MAP OF AREA PLANNING AND DEVELOPMENT COMMISSIONS	12
POPULATION ESTIMATES OF AREA PLANNING AND DEVELOPMENT COMMISSIONS AND THEIR COMPONENT COUNTIES	13
MAP OF STANDARD METROPOLITAN STATISTICAL AREAS	20
POPULATION ESTIMATES OF STANDARD METROPOLITAN STATISTICAL AREAS AND THEIR COMPONENT COUNTIES	21

Cost $376
Quantity
1M

Foreward

* The format of the vehicle pages in this year's report has been changed to emphasize the number of **accidents** by vehicle type, rather than the number of vehicles of each type involved in accidents. We have also made several changes in the summary to provide you with more information about 1978 traffic accidents.

* The 1978 Iowa fatality figure includes all persons who died as a result of a traffic acident on public roads within one year of the accident, or before April 1, 1979.

  The 1979 fatality figure will include all persons who die as a result of a traffic accident within 30 days of the accident. The change has been made by the U.S. Department of Transportation to promote nationwide uniformity in the reporting of highway fatalities.

Acknowledgement

The Iowa Department of Transportation wishes to express appreciation to all law enforcement agencies and officers for their work in accident investigation which made this report possible. All information concerning Iowa traffic accidents was taken from report forms provided by investigating officers and drivers involved in accidents.

We hope this information will be of value in analyzing the causes of traffic accidents in Iowa and that it emphasizes the need for concerned, well prepared drivers and a safe driving environment.

Prepared by
Office of Safety Programs
Research and Statistics Section
Cheryl Hammond, Supervisor

CONTENTS

Page

I. Foreward i

II. Glossary iv

III. Summary:

a. A look at Iowa 1
b. Trends (1960-78) 2
c. Vehicle miles/fatalities (1960-78) 3
d. Drinking and driving 4
e. Pedestrians 5
f. Driver: age/sex 6
g. Holiday fatalities (1962-78) 8
h. Time 9
i. Counties 10
j. Special research 14

IV. Vehicles Involved in Accidents:

a. Overall summary 15
b. By type:

Automobiles
Automobiles 18
Automobiles with trailers 20

Buses
Buses 23
School buses 25

Cycles
Bicycles 26
Motorcycles 28

Farm Vehicles 30

Maintenance Vehicles 32

Motor Homes 34

Recreational Vehicles 36

Trains 38

Trucks
Panel trucks 40
Pickups 42
Pickups with campers 44
Pickups with trailers 46
Straight trucks 48
Tow trucks 50
Truck tractors 52
Truck tractors with trailers 54

V. Investigating Officer's Report Form (sample) 56

Glossary

Traffic Accident: An accident involving one or more motor vehicles on a public road resulting in personal injury or property damage of at least $250.

Fatal accident: Accident in which one or more persons are killed.

Personal injury accident: Accident in which no one is killed, but one or more persons is injured.

Property damage accident: Accident in which no one is killed or injured, but damage of $250 or more is incurred.

Fatality: Person killed as a result of a traffic accident.

Alcohol-related: Concerning an accident where either a driver or a pedestrian is listed on an accident report as drinking prior to the accident.

Vehicle miles: Iowa vehicle-mile figures are the estimated total number of miles traveled on Iowa primary and secondary highways and urban and rural roads and streets by all vehicles during a given period.

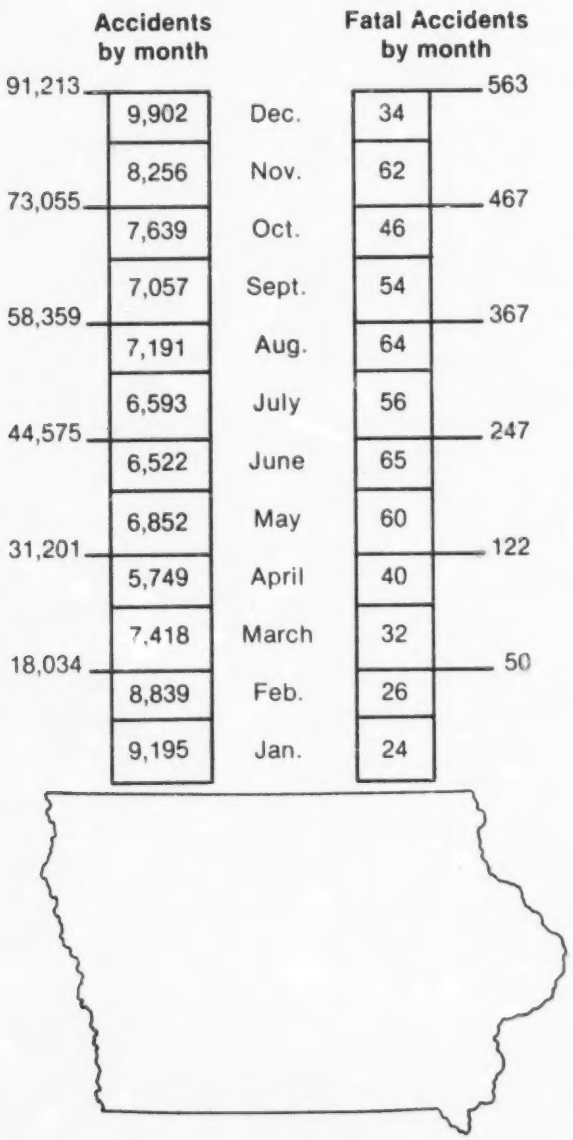
Fatality rate: Number of fatalities per 100 million vehicle miles.

Accident rate: Number of accidents per one million vehicle miles.

Registered vehicle: Vehicle licensed in the county of residence of the owner.

SUMMARY
General

A look at Iowa...



In 1978 there was:

1 accident every 6 minutes

1 driver out of every 15 involved in an accident

1.8 lives lost per day because of traffic accidents. (A total of 650 lives lost in 1978.)

86.6 persons injured per day because of traffic accidents. (A total of 31,627 persons injured in 1978.)

SUMMARY
Trends 1968-1978

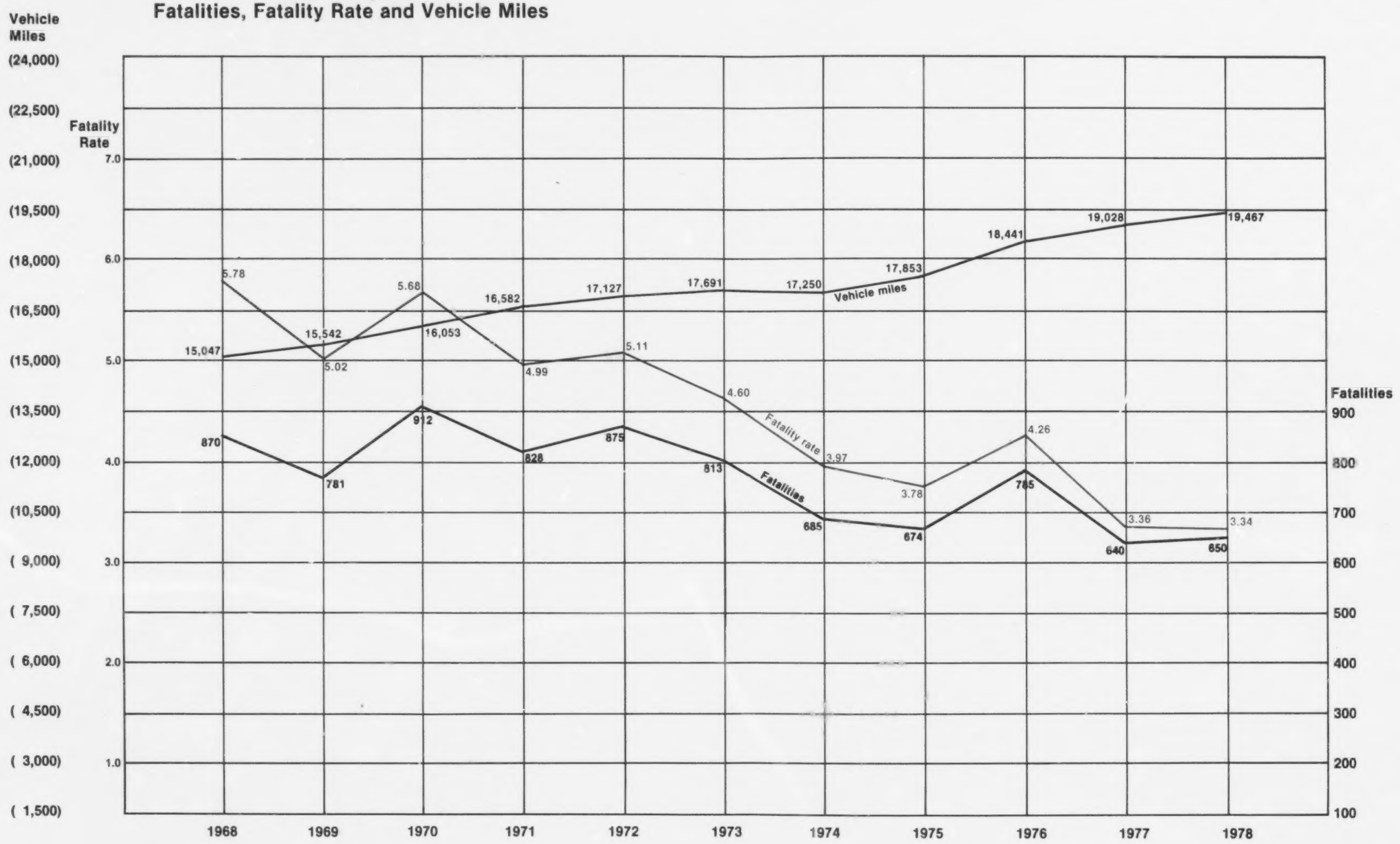
Year	All Acc.	Fatalities	Fatal Acc.	Injury Acc.	Vehicle Miles (Million)	Fatality Rate*	Fatal Acc. Rate*	Acc. Rate**
1968	78,531	870	724	21,915	15,047	5.78	4.81	5.22
1969	87,469	781	639	22,110	15,542	5.02	4.11	5.63
1970	87,808	912	752	22,339	16,053	5.68	4.68	5.47
1971	87,100	828	681	21,411	16,582	4.99	4.11	5.25
1972	91,918	875	722	23,814	17,127	5.11	4.22	5.37
1973	96,620	813	682	24,683	17,691	4.60	3.86	5.46
1974	91,117	685	583	22,851	17,250	3.97	3.38	5.28
1975	94,825	674	578	23,082	17,853	3.78	3.24	5.31
1976	98,000	785	663	24,218	18,441	4.26	3.60	5.31
1977	87,771	640	561	22,358	19,028	3.36	2.95	4.61
1978	91,213	650	563	21,651	19,467	3.34	2.89	4.69

* Per 100 million vehicle miles traveled.
**Per one million vehicle miles traveled.

SUMMARY

Vehicle Miles/ Fatalities

Trends Comparison:
Fatalities, Fatality Rate and Vehicle Miles



SUMMARY
Drinking/driving

In 1978, Iowa ranked sixth lowest in the nation in the amount of alcohol consumed per capita, according to the Iowa Beer and Liquor Commission, slightly lower in rank than in 1977. Alcohol-related fatal accidents also decreased -- to 36 percent in 1978 from 39 percent the previous year.

In Iowa, drivers involved in fatal accidents are not required by law to submit to an alcohol test. Testing for alcohol is based on "probable cause" as determined by the investigating officer. Care should be used in comparing the yearly percentages of alcohol-related fatal accidents due to fluctuations in the number of reports received.

Iowa alcohol-related accident figures should not be compared to states where a driver alcohol test is mandatory.

Age of Drinking Drivers

	All Accidents		Fatal Accidents		Injury Accidents		Property Damage Accidents	
	No.	%	No.	%	No.	%	No.	%
15 & under	28	0.3	--	--	9	0.3	19	0.4
16	188	2.3	6	2.9	71	2.2	111	2.4
17	370	4.5	5	2.4	163	5.0	202	4.3
18	734	9.0	25	12.2	315	9.6	394	8.4
19	677	8.3	15	7.3	265	8.1	397	8.5
20	594	7.3	12	5.8	251	7.7	331	7.1
21-24	1,807	22.2	51	24.9	755	23.1	1,001	21.4
25-34	1,943	23.9	57	27.8	780	23.9	1,105	23.7
35-44	766	9.4	12	5.8	297	9.1	457	9.8
45-54	523	6.4	11	5.3	198	6.1	314	6.7
55-64	335	4.4	6	2.9	115	3.5	214	4.6
65-74	135	1.7	3	1.5	40	1.2	92	2.0
75 & over	36	0.4	--	--	7	0.2	29	0.6
Not stated	7	0.1	2	1.0	0	--	5	0.1
Total	8,143	99.9	205	100.0	3,266	100.0	4,671	100.0

SUMMARY
Pedestrians

Fatalities:

Age	Killed	%
0-4	9	16
5-10	7	12
11-14	5	9
15-19	3	5
20-24	8	14
25-34	4	7
35-44	6	10
45-54	2	3
55-64	1	2
65 +	13	22
Total	58	

Of all pedestrian fatalities, 50% were persons under 11 or over 64 years of age.

Alcohol-Related Pedestrian Accidents:

	Accidents	%
Pedestrian (only) drinking	8	14
Driver (only) drinking	4	7
Pedestrian and driver drinking	1	2
No alcohol involvement	28	50
Unknown	16	28
Total	57*	

*There were 58 pedestrians killed in 57 pedestrian accidents during 1978.

All Pedestrian Accidents:

Pedestrian Action	Killed	Injured
Crossing against signal	1	16
Not crossing at crosswalk	15	106
Walking, improper position on roadway	6	18
Soliciting rides on road	2	0
Walking with traffic	2	13
Walking against traffic	1	5
Crossing with signal or in crosswalk	6	82
Ran onto roadway or into road from between parked cars	7	177
Directing traffic	1	5
Playing	1	20
Lying or sitting on roadway	2	5
Pushing, working on vehicle	1	25
Getting on or off vehicle	0	15
Maint./const. project	0	5
Walking, off roadway	1	11
Unknown	12	470
Total	58	973

Driver Action/ Contributing Circum.*	Fatal Acc.	Injury Acc.
Ran traffic control	0	14
Improper passing	0	7
Left of center, not passing	0	1
Failure to yield	7	101
Speeding	3	11
Drag racing	1	0
Improper turn	0	2
Improper lane change	0	1
Following too close	1	0
Disregarded R.R. sign	0	1
Disregarded warning signal	0	1
Reckless driving	0	12
Improper backing	0	9
Failure to have control	1	10
Driver physical condition	0	2
Driver drinking	5	10
Inattentive/distracted	2	36
Confused/inexperienced	0	15
Vision obscured	2	46
Vehicle defect	1	2

*0-2 actions/circumstances were listed for each driver.

SUMMARY
Driver: Age/Sex

Age	Licensed Drivers	Drivers Involved in Accidents	Drivers Involved in Fatal Acc.	Acc. Rate**	Fatal Acc. Rate**
15 & under	55,406*	936	15	169	2.71
16	46,000	7,495	32	1,629	6.96
17	58,000	9,193	26	1,585	4.48
18	60,000	9,560	59	1,593	9.83
19	63,000	8,244	47	1,309	7.46
20-24	304,000	29,025	188	954	6.18
25-34	507,000	31,748	181	626	3.57
35-44	316,000	16,790	95	531	3.00
45-54	287,000	13,347	77	465	2.68
55-64	266,000	10,816	70	407	2.63
65-74	184,000	6,438	33	350	1.79
75 & up	86,000	3,516	30	409	3.49
Not stated	--	461	10	--	--
Total	2,180,000	147,569	863	677	3.96
Sex					
Male	1,155,000	100,219	693	868	6.00
Female	1,025,000	46,923	166	458	1.62
Not stated	--	427	4	--	--
Total	2,180,000	147,569	863	677	3.96

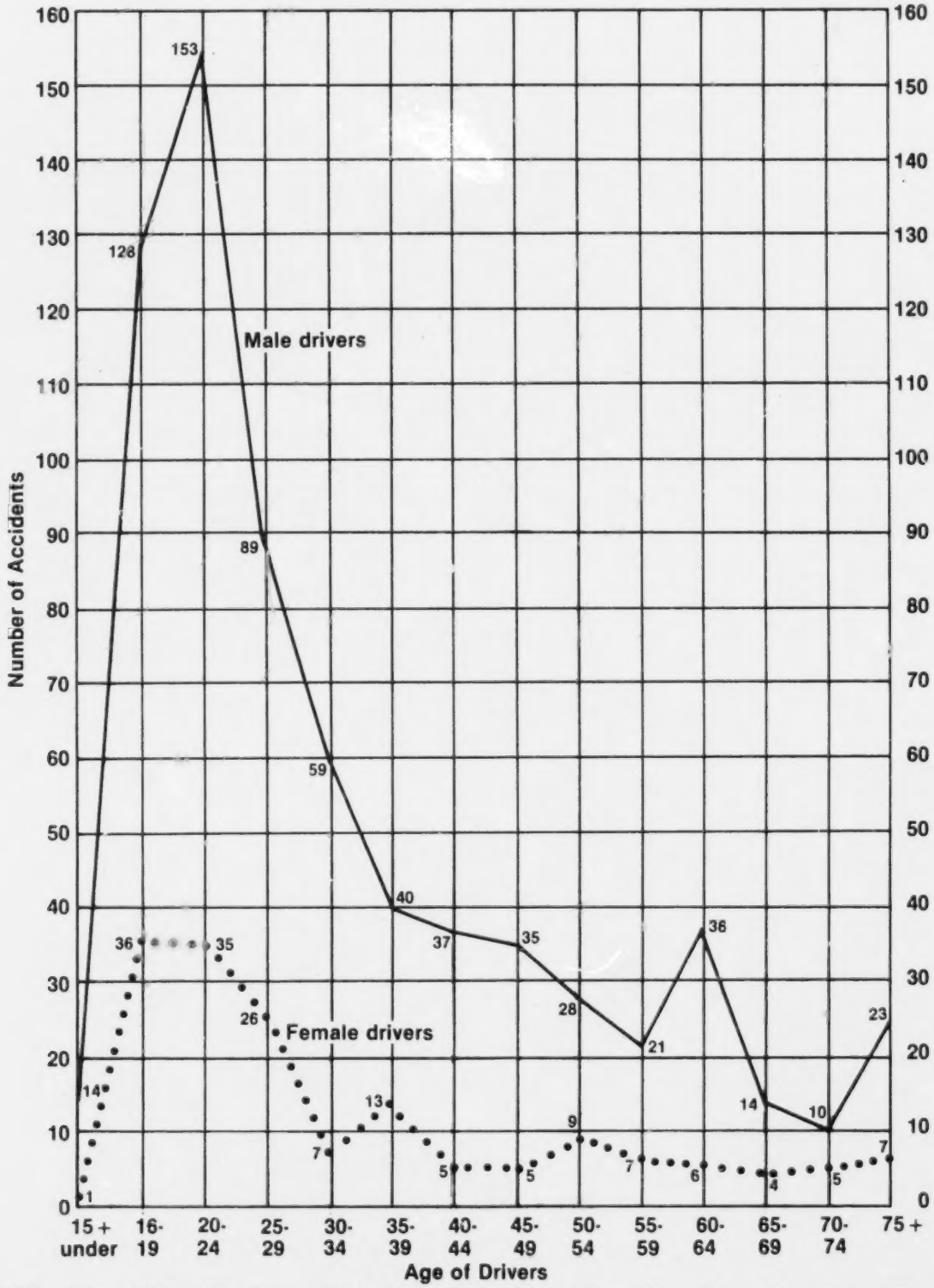
*Includes instruction permits and school permits (permits to drive to and from school)
**Accidents/fatal accidents per 10,000 licensed drivers

SUMMARY

Driver: Age / Sex

1978 Fatal Accidents

Drivers:		
— Male	687	80.3%
• • • Female	166	19.2%
Age/sex unknown	10	.5%
Total	863	100.0%



Total:	15	164	188	115	66	53	42	40	37	28	42	18	15	30	= 853

SUMMARY
Holiday Fatalities

Holiday Traffic Fatalities
Iowa, 1962-78

In 1978, for the holidays described in the table below, the average number of deaths per day was 2.3. However, the average number of deaths per day for all weekends in 1978 was 2.6. **Note: Figures in parentheses show number of full days in each holiday period.**

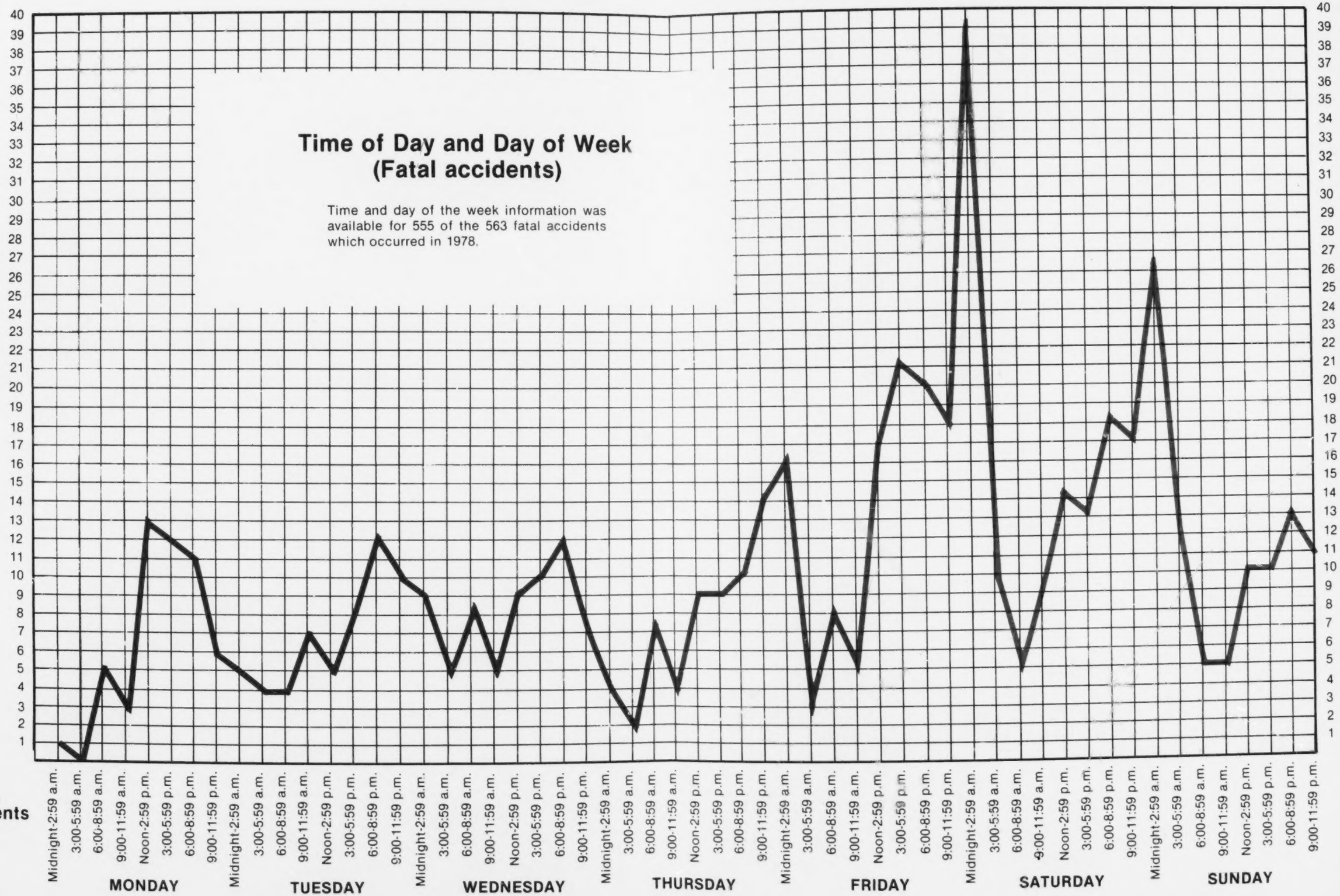
Year	Memorial Day	Fourth of July	Labor Day	Thanksgiving Day	Christmas Day	New Year's Day
1962	2 (2)	-- (1)	5 (3)	No Record	11 (4)	3 (4)
1963	6 (4)	18 (4)	8 (3)	No Record	7 (1)	4 (1)
1964	4 (3)	7 (3)	15 (3)	No Record	13 (3)	3 (3)
1965	6 (3)	9 (3)	11 (3)	No Record	13 (3)	7 (3)
1966	11 (3)	7 (3)	27 (3)	No Record	6 (3)	6 (3)
1967	7 (4)	13 (4)	9 (3)	No Record	8 (3)	4 (3)
1968	11 (4)	16 (4)	18 (3)	10 (4)	5 (1)	1 (1)
1969	7 (3)	10 (3)	11 (3)	13 (4)	7 (4)	12 (4)
1970	8 (3)	10 (3)	13 (3)	12 (4)	7 (3)	8 (3)
1971	5 (3)	12 (3)	15 (3)	12 (4)	9 (3)	4 (3)
1972	9 (3)	3 (1)	6 (3)	14 (4)	12 (3)	5 (3)
1973	7 (3)	5 (1)	11 (3)	14 (4)	9 (4)	6 (4)
1974	4 (3)	8 (4)	16 (3)	13 (4)	4 (1)	6 (1)
1975	6 (3)	7 (3)	8 (3)	3 (4)	5 (4)	5 (4)
1976	6 (3)	16 (3)	10 (3)	9 (4)	5 (3)	9 (3)
1977	11 (3)	16 (3)	6 (3)	7 (4)	5 (3)	1 (3)
1978	13 (3)	8 (4)	5 (3)	14 (4)	3 (3)	3 (3)

SUMMARY

Time - Fatal Accidents

Time of Day and Day of Week (Fatal accidents)

Time and day of the week information was available for 555 of the 563 fatal accidents which occurred in 1978.



Fatalities by County
1974-1978

Numbers represent fatalities, in order, for each year from 1974 through 1978.

SUMMARY
Counties

County	Registrations	All Acc.	Acc. Rate*	Fatal Acc.	Fatal Acc. Rate*
Adair	10,708	280	261	6	5.60
Adams	6,859	121	176	1	1.46
Allamakee	15,646	480	307	4	2.56
Appanoose	15,738	374	238	3	1.91
Audubon	9,278	214	231	3	3.23
Benton	24,379	520	213	6	2.46
Black Hawk	128,256	5,008	390	21	1.64
Boone	28,207	708	251	4	1.42
Bremer	24,334	584	240	5	2.05
Buchanan	22,386	581	260	6	2.68
Buena Vista	22,138	625	282	1	0.45
Butler	18,913	314	166	3	1.59
Calhoun	14,776	329	223	3	2.03
Carroll	22,455	696	310	3	1.34
Cass	18,762	539	287	6	3.20
Cedar	19,971	445	223	3	1.50
Cerro Gordo	47,922	1,818	379	6	1.25
Cherokee	18,093	496	274	5	2.76
Chickasaw	15,453	298	193	7	4.53
Clarke	8,851	272	307	0	0.00
Clay	21,077	683	324	9	4.27
Clayton	21,234	496	234	6	2.83
Clinton	53,144	1,997	376	10	1.88
Crawford	19,143	631	330	9	4.70
Dallas	31,698	674	213	6	1.89
Davis	8,542	201	235	5	5.85
Decatur	9,309	211	227	4	4.30
Delaware	17,673	416	235	4	2.26
Des Moines	45,890	1,282	279	8	1.74
Dickinson	17,911	527	294	3	1.67
Dubuque	74,527	3,096	415	15	2.01
Emmett	14,882	382	257	1	0.67
Fayette	24,979	542	217	3	1.20
Floyd	20,729	548	264	1	0.48
Franklin	15,097	342	227	1	0.66
Fremont	10,667	261	245	3	2.81
Greene	14,277	329	230	2	1.40
Grundy	15,806	257	163	3	1.90
Guthrie	13,320	274	206	1	0.75
Hamilton	19,961	639	320	7	3.51
Hancock	15,266	282	185	3	1.97
Hardin	23,307	578	248	3	1.29
Harrison	16,753	550	328	9	5.37
Henry	19,871	508	256	4	2.01
Howard	11,600	198	171	4	3.45

*Per 10,000 registered vehicles

SUMMARY
Counties

County	Registrations	All Acc.	Acc. Rate*	Fatal Acc.	Fatal Acc. Rate*
Humboldt	14,569	319	219	3	2.06
Ida	9,876	244	247	3	3.04
Iowa	16,673	433	260	3	1.80
Jackson	21,812	470	215	6	2.75
Jasper	38,481	1,017	264	7	1.82
Jefferson	15,556	441	283	2	1.29
Johnson	63,650	2,468	388	14	2.20
Jones	19,492	532	273	4	2.05
Keokuk	14,305	238	166	5	3.50
Kossuth	24,747	546	221	6	2.42
Lee	41,484	1,558	376	12	2.89
Linn	154,962	5,604	362	16	1.03
Louisa	13,178	225	171	4	3.04
Lucas	10,898	274	251	1	0.91
Lyon	13,358	294	220	8	5.99
Madison	13.964	312	223	5	3.58
Mahaska	23,613	671	284	2	0.85
Marion	28,164	857	304	6	2.13
Marshall	43,278	1,363	315	6	1.39
Mills	12,607	415	329	4	3.17
Mitchell	12,856	332	258	3	2.33
Monona	13,621	327	240	4	2.94
Monroe	9,616	278	289	3	3.12
Montgomery	13,990	401	287	4	2.86
Muscatine	39,269	1,093	278	11	2.80
O'Brien	17,829	409	229	3	1.68
Osceola	9,147	167	183	1	1.09
Page	18,105	487	269	2	1.10
Palo Alto	13,761	313	227	6	4.36
Plymouth	23,805	670	281	5	2.10
Pocahontas	13,077	266	203	4	3.06
Polk	276,744	14,363	519	28	1.01
Pottawattamie	76,662	3,296	430	27	3.52
Poweshiek	19,995	539	270	5	2.50
Ringgold	7,248	155	214	2	2.76
Sac	15,898	391	246	4	2.52
Scott	137,451	5,795	422	21	1.53
Shelby	15,659	308	197	4	2.55
Sioux	28,122	612	218	8	2.84
Story	57,067	1,873	328	11	1.93
Tama	20,933	456	218	3	1.43
Taylor	9,026	164	182	1	1.11
Union	13,995	472	337	1	0.71
Van Buren	9,163	114	124	5	5.46
Wapello	39,263	1,087	277	9	2.29

*Per 10,000 registered vehicles

SUMMARY
Counties

County	Registrations	All Acc.	Acc. Rate*	Fatal Acc.	Fatal Acc. Rate*
Warren	33,858	712	210	10	2.95
Washington	20,797	476	229	6	2.89
Wayne	9,120	151	166	4	4.39
Webster	46,099	1,846	400	10	2.17
Winnebago	15,268	302	198	3	1.96
Winneshiek	19,990	623	312	5	2.50
Woodbury	89,931	3,306	367	10	1.11
Worth	9,782	153	156	0	0.00
Wright	17,742	389	219	3	1.69
Total	**2,819,346**	**91,213**	**323**	**563**	**2.00**

*Per 10,000 registered vehicles

SUMMARY
Special Research

Surveys on motorcycle helmet usage, motorcycle mileage and seat belt usage were conducted by the Office of Safety Programs in conjunction with the Office of Transportation Inventory during the summer of 1978. Findings included:

- The average Iowa motorcyclist rides 2,241 miles per year. The motorcycle fatality rate (deaths per 100 million vehicle miles) is six times higher than the rate for all vehicles.
- Helmets were worn by 22 percent of motorcycle operators on city streets. This compares to 61 percent for operators on rural interstates and 48 percent for operators on other rural roads.
- Only 11 percent of Iowans use seat belts. Use in the city is lower than on rural roads.

The reports, "Iowa Helmet Usage Survey and Motorcycle Mileage Study" and "Profiles of Iowa Motorcycle and Moped Operators," are available from the Office of Safety Programs.

Accidents By Vehicle Type: 1978

Vehicle Type	No. of Acc. Inv. Specific Vehicle Type	Percent of All Acc.*
Automobile	79,873	87.6
Automobile with trailer	404	.4
Bus	433	.5
School bus	524	.6
Bicycle	532	.6
Motorcycle	2,516	2.8
Farm vehicle	452	.5
Maintenance vehicle	506	.6
Motor home	159	.2
Recreational vehicle	289	.3
Train	253	.3
Double bottom truck	6	.0
Panel truck	3,593	3.9
Pickup	18,154	19.9
Pickup with camper	368	.4
Pickup with trailer	413	.5
Straight truck	2,783	3.1
Tow truck	172	.2
Tractor with trailer	2,981	3.3
Truck tractor	437	.5

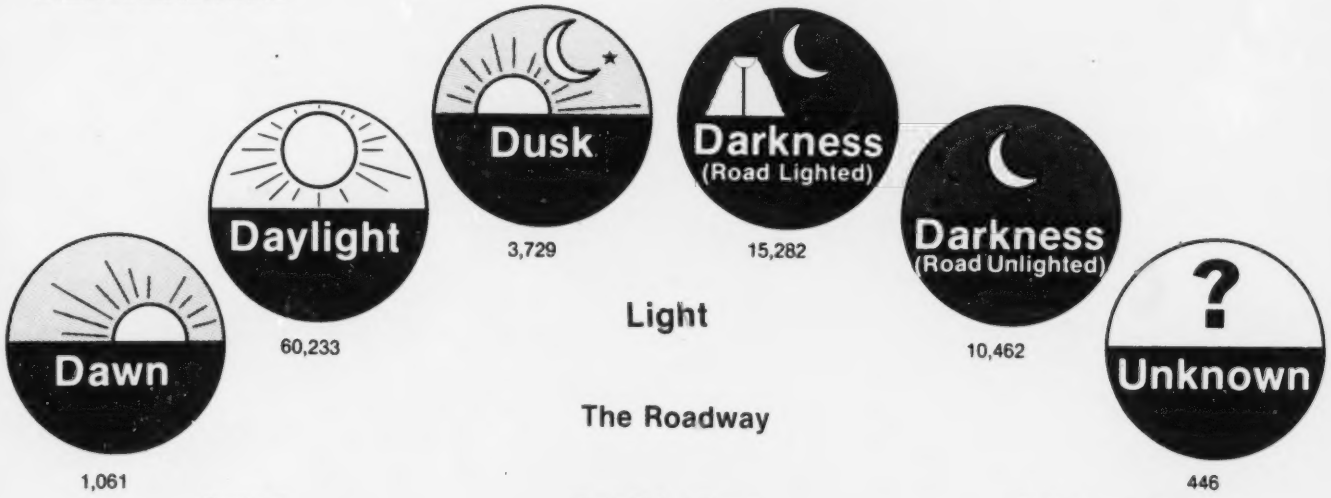
Note: Because only six accidents involving double bottom trucks occurred in Iowa in 1978, a page on double bottom trucks was not included. In 1977, there were nine accidents involving double bottom trucks, not 51 as listed in last year's accident report. For more information, contact the Office of Safety Programs.

*Percentages are based on 91,213 accidents which occurred in 1978.

Iowa

THE ENVIRONMENT

ALL VEHICLES



Light

The Roadway

Contour

Straight, level	46,374		51%
Straight, up/downgrade	13,909		
Straight, hill crest	1,484		
Curve, level	3,954		
Curve, up/downgrade	2,947	38,952	43%
Curve, hill crest	230		
Intersection, level	12,177		
Intersection, up/downgrade	3,852		
Intersection, hill crest	399		
Unknown/not stated	5,887		6%
Total no. of accidents	91,213		

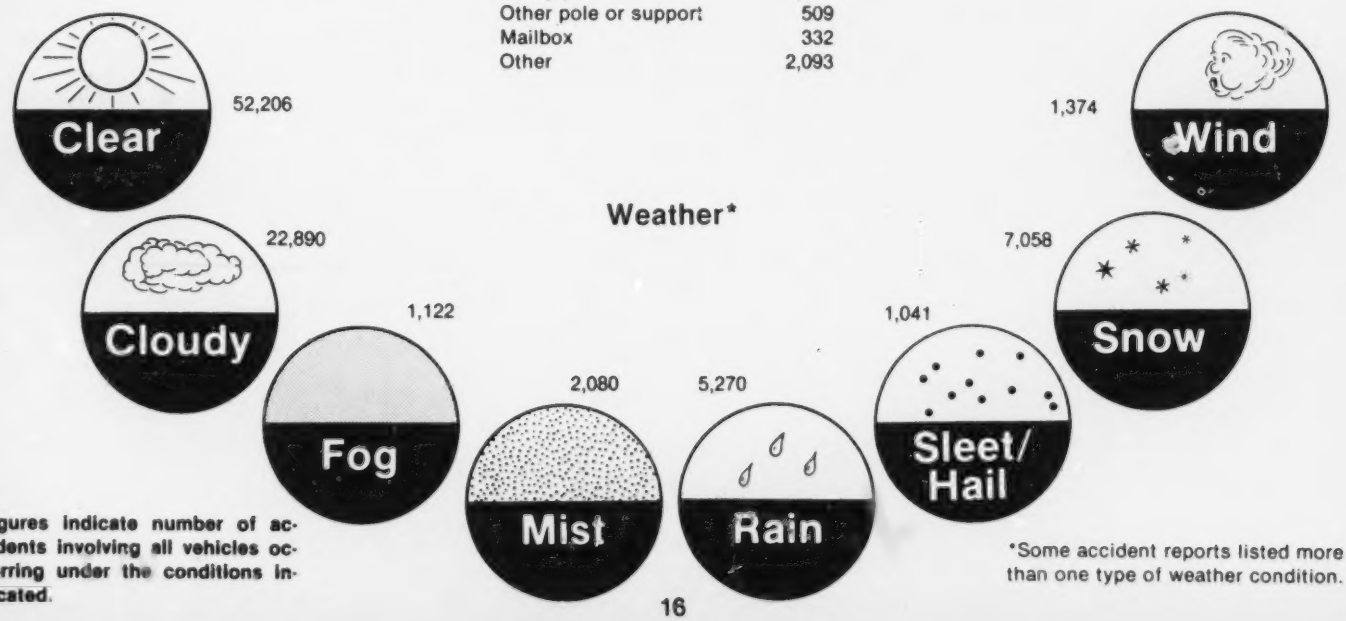
Fixed Object Struck

10% of vehicles involved in accidents struck fixed objects.

Bridge/overpass	947
Underpass/bridge support	84
Building	457
Culvert	364
Curb	681
Ditch	3,265
Island/raised median	161
Embankment/retaining wall	474
Fence	1,208
Guardrail	750
Light pole	1,362
Sign post	1,173
Tree or shrubbery	885
Utility pole	1,471
Other pole or support	509
Mailbox	332
Other	2,093

Traffic Controls

No controls	56,847		62%
Traffic signals	11,402		13%
Stop sign	12,785		14%
Yield sign	1,137		
No passing zone (marked)	634		
R.R. warning sign	191	2,174	2%
R.R. automatic signal	162		
R.R. crossing gate	50		
Other/unknown/not stated	8,005		9%
Total no. of accidents	91,213		



Figures indicate number of accidents involving all vehicles occurring under the conditions indicated.

*Some accident reports listed more than one type of weather condition.

ACCIDENTS INVOLVING

ALL VEHICLES

In 1978 there were:
586 motor vehicle occupants killed
91,213 accidents involving motor vehicles
83,336 collision accidents involving motor vehicles
7,877 non-collision accidents involving motor vehicles

THE DRIVER*

Driver Action/ Contributing Circumstances**	Number of Drivers	% of Drivers Involved in Accidents
Ran traffic control	3,739	2.5
Improper passing	1,575	1.1
Left of center, not passing	1,978	1.3
Failure to yield	14,330	9.7
Wrong way, one-way road	107	0.1
Speed too fast	6,794	4.6
Drag racing	26	0.0
Improper turn	2,028	1.4
Improper lane change	1,638	1.1
Following too close	2,923	2.0
Improper or no signal	666	0.5
Disregarded R.R. signal	62	0.0
Disregarded warning signal	209	0.1
Reckless driving	723	0.5
Improper backing	2,270	1.5
Illegal or improper parking	454	0.3
Failure to have control	13,144	8.9
Lights not on	172	0.1
Physically unfit	614	0.4
Drinking	2,554	1.7
Inattentive/distracted	5,763	3.9
Confused/inexperienced	2,690	1.8
Vision obscured	3,264	2.2
Vehicle defect	1,392	0.9
Oversized vehicle	115	0.1
Other	4,932	3.3

Driver Condition			
Apparently normal	111,359		75%
Physical defect	260		
Fatigued	931		
Apparently asleep	908		
Ill	77	5,236	4%
Under medication	145		
Infirmities of age	611		
Other	2,304		
Unknown	30,974		21%

*Based on 147,569 drivers for which information was available.
**0-2 actions/circumstances listed for each driver.

THE MACHINE

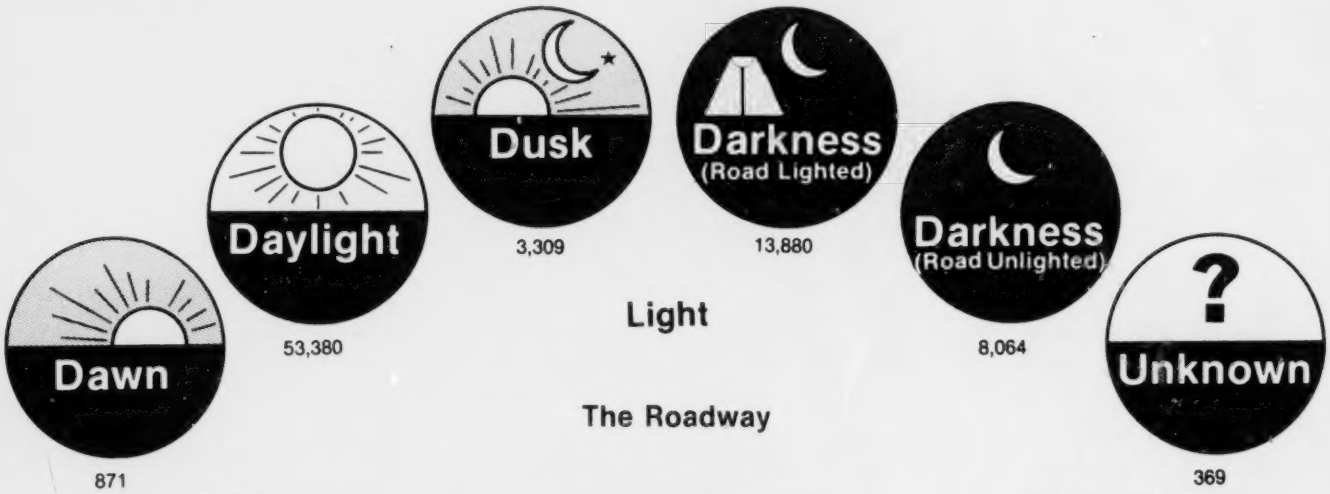
Vehicle Action	No. of Vehicles		
Going straight	79,757		48%
Turning left	14,889		9%
Turning right	6,338		
Making U-turn	332		
Passing	1,663		
Changing lanes	1,594		
Merging	892		
Parking	524		
Slowing-stopping	3,001	34,861	21%
Backing	4,063		
Stopped in traffic	6,283		
Parked	7,900		
Unattended moving vehicle	253		
Other	2,018		
Unknown/not stated	[illegible]		22%
Total no. of vehicles	166,906		

Vehicle Defects			
None	71,321		43%
Brakes	717		
Lights	233		
Steering	158		
Wipers	37		
Tires	424	[illegible]	1%
Power failure	162		
Trailer hitch	49		
Other	428		
Unknown/not stated	93,377		56%
Total no. of vehicles	166,906		

Iowa

AUTOMOBILES

THE ENVIRONMENT



Light

The Roadway

Contour

Straight, level	41,127		51%
Straight, up/downgrade	11,798		
Straight, hill crest	1,258		
Curve, level	3,050		
Curve, up/downgrade	2,237		
Curve, hill crest	177	33,544	42%
Intersection, level	11,172		
Intersection, up/downgrade	3,492		
Intersection, hill crest	360		
Unknown/not stated	5,202		
Total no. of accidents	79,873		7%

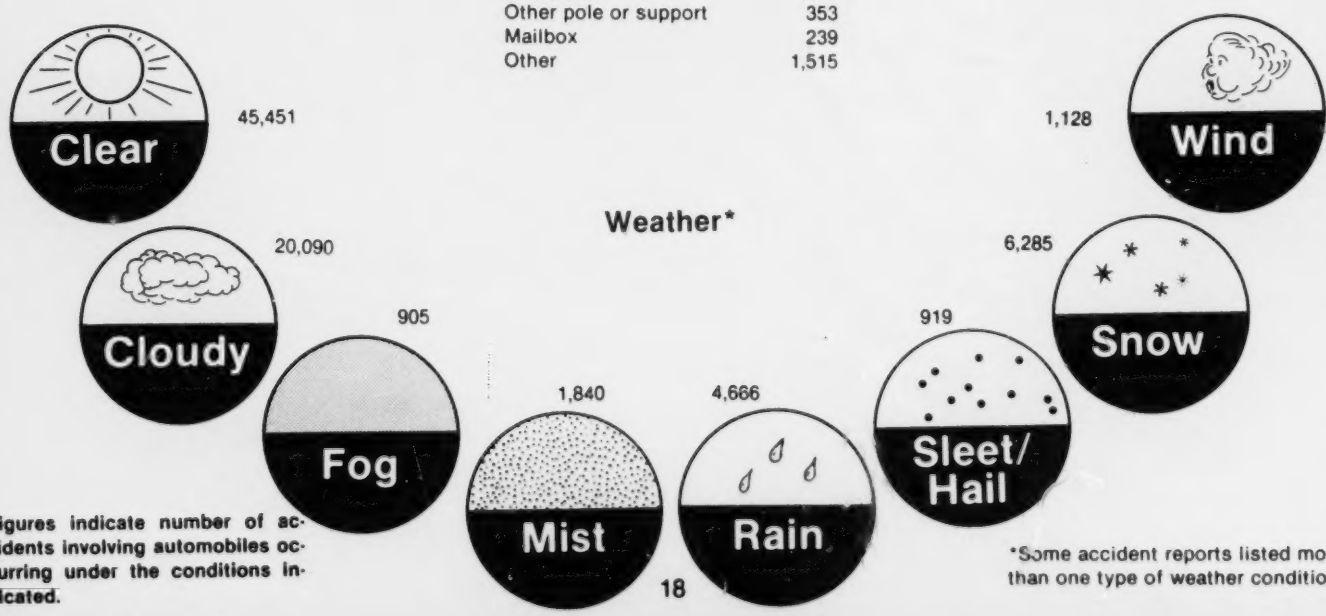
Fixed Object Struck

9% of all automobiles involved in accidents struck fixed objects.

Bridge/overpass	660
Underpass/bridge support	50
Building	329
Culvert	268
Curb	513
Ditch	2,191
Island/raised median	119
Embankment/retaining wall	343
Fence	857
Guardrail	558
Light pole	1,025
Sign post	864
Tree or shrubbery	678
Utility pole	1,158
Other pole or support	353
Mailbox	239
Other	1,515

Traffic Controls

No controls	47,852		60%
Traffic signals	10,076		13%
Stop sign	10,222		13%
Yield sign	917		
No passing zone (marked)	482		
R.R. warning sign	134	1,680	2%
R.R. automatic signal	111		
R.R. crossing gate	36		
Other/unknown/not stated	10,043		13%
Total no. of accidents	79,873		



Figures indicate number of accidents involving automobiles occurring under the conditions indicated.

*Some accident reports listed more than one type of weather condition.

ACCIDENTS INVOLVING

AUTOMOBILES

In 1978 there were:
381 automobile occupants killed
79,873 accidents involving automobiles
75,402 collision accidents involving automobiles
4,471 non-collision accidents involving automobiles

THE DRIVER*

Driver Action/ Contributing Circumstances**	Number of Drivers	% of Drivers Involved in Accidents
Ran traffic control	2,956	2.6
Improper passing	1,068	1.0
Left of center, not passing	1,482	1.3
Failure to yield	11,556	10.3
Wrong way, one-way road	85	0.0
Speed too fast	5,123	4.6
Drag racing	19	0.0
Improper turn	1,475	1.3
Improper lane change	1,168	1.0
Following too close	2,187	1.9
Improper or no signal	436	0.4
Disregarded R.R. signal	40	0.0
Disregarded warning signal	137	0.1
Reckless driving	560	0.5
Improper backing	1,533	1.4
Illegal or improper parking	310	0.3
Failure to have control	9,687	8.6
Lights not on	124	0.1
Physically unfit	455	0.4
Drinking	1,887	1.7
Inattentive/distracted	4,352	3.9
Confused/inexperienced	2,029	1.8
Vision obscured	2,443	2.2
Vehicle defect	794	0.7
Oversized vehicle	17	0.0
Other	3,444	3.1

Driver Condition			
Apparently normal	84,216		75%
Physical defect	198		
Fatigued	677		
Apparently asleep	631		
Ill	57	3,945	4%
Under medication	120		
Infirmities of age	557		
Other	1,705		
Unknown	24,115		21%

THE MACHINE

Vehicle Action	No. of Vehicles		
Going straight	59,456		48%
Turning left	11,455		9%
Turning right	4,589		
Making U-turn	249		
Passing	1,160		
Changing lanes	1,145		
Merging	690		
Parking	403	26,196	1%
Slowing-stopping	2,328		
Backing	2,722		
Stopped in traffic	5,030		
Parked	6,299		
Unattended moving vehicle	157		
Other	1,424		
Unknown/not stated	27,274		22%
Total no. of vehicles	124,381		

Vehicle Defects			
None	53,382		43%
Brakes	431		
Lights	124		
Steering	95		
Wipers	24		
Tires	278	1,348	1%
Power failure	118		
Trailer hitch	5		
Other	273		
Unknown/not stated	69,651		56%
Total no. of vehicles	124,381		

*Based on 112, 276 automobile drivers for which information was available.
**0-2 actions/circumstances listed for each driver.

Iowa

THE ENVIRONMENT

AUTOMOBILES WITH TRAILERS

Light

The Roadway

Contour

Straight, level	211		52%
Straight, up/downgrade	72		
Straight, hill crest	7		
Curve, level	19		
Curve, up/downgrade	11		
Curve, hill crest	0	170	42%
Intersection, level	49		
Intersection, up/downgrade	10		
Intersection, hill crest	2		
Unknown/not stated	23		
Total no. of accidents	404		6%

Fixed Object Struck

16% of all automobiles with trailers involved in accidents struck fixed objects.

Bridge/overpass	5
Underpass/bridge support	0
Building	1
Culvert	2
Curb	1
Ditch	16
Island/raised median	0
Embankment/retaining wall	2
Fence	4
Guardrail	6
Light pole	6
Sign post	4
Tree or shrubbery	2
Utility pole	4
Other pole or support	5
Mailbox	0
Other	7

Traffic Controls

No controls	263		65%
Traffic signals	30		7%
Stop sign	26		6%
Yield sign	3		
No passing zone (marked)	4		
R.R. warning sign	0	9	2%
R.R. automatic signal	1		
R.R. crossing gate	1		
Other/unknown/not stated	76		19%
Total no. of accidents	404		

Weather*

Figures indicate number of accidents involving automobiles with trailers occurring under the conditions indicated.

*Some accident reports listed more than one type of weather condition.

ACCIDENTS INVOLVING

AUTOMOBILES WITH TRAILERS

In 1978 there were:

0 occupants of automobiles with trailers killed
404 accidents involving automobiles with trailers
331 collision accidents involving automobiles with trailers
73 non-collision accidents involving automobiles with trailers

THE DRIVER*

Driver Action/ Contributing Circumstances**	Number of Drivers	% of Drivers Involved in Accidents
Ran traffic control	11	2.7
Improper passing	5	1.2
Left of center, not passing	4	1.0
Failure to yield	22	5.5
Wrong way, one-way road	0	0.0
Speed too fast	17	4.2
Drag racing	0	0.0
Improper turn	2	0.5
Improper lane change	4	1.0
Following too close	3	0.7
Improper or no signal	5	1.2
Disregarded R.R. signal	0	0.0
Disregarded warning signal	1	0.2
Reckless driving	0	0.0
Improper backing	4	1.0
Illegal or improper parking	0	0.0
Failure to have control	31	7.7
Lights not on	1	0.2
Physically unfit	3	0.7
Drinking	4	1.0
Inattentive/distracted	17	4.2
Confused/inexperienced	14	3.5
Vision obscured	8	2.0
Vehicle defect	17	4.2
Oversized vehicle	1	0.2
Other	26	6.5

Driver Condition			
Apparently normal	319		79%
Physical defect	0		
Fatigued	6		
Apparently asleep	0		
Ill	1	13	3%
Under medication	0		
Infirmities of age	0		
Other	6		
Unknown	70		17%

*Based on 402 drivers of automobiles with trailers for which information was available.
**0-2 actions/circumstances listed for each driver.

THE MACHINE

Vehicle Action	No. of Vehicles		
Going straight	242		58%
Turning left	34		8%
Turning right	11		
Making U-turn	3		
Passing	4		
Changing lanes	10		
Merging	2		
Parking	2	75	18%
Slowing-stopping	4		
Backing	6		
Stopped in traffic	17		
Parked	6		
Unattended moving vehicle	0		
Other	10		
Unknown/not stated	67		16%
Total no. of vehicles	418		

Vehicle Defects			
None	186		44%
Brakes	1		
Lights	2		
Steering	0		
Wipers	0	19	5%
Tires	4		
Power failure	0		
Trailer hitch	9		
Other	3		
Unknown/not stated	213		51%
Total no. of vehicles	418		

Iowa

THE ENVIRONMENT

BUSES

21 43 351 11 6 1

Light

The Roadway

Contour

Straight, level	209		48%
Straight, up/downgrade	76		
Straight, hill crest	5		
Curve, level	17		
Curve, up/downgrade	7		
Curve, hill crest	0	205	47%
Intersection, level	61		
Intersection, up/downgrade	36		
Intersection, hill crest	3		
Unknown/not stated	19		
Total no. of accidents	433		4%

Fixed Object Struck

7% of all buses involved in accidents struck fixed objects.

Bridge/overpass	2
Underpass/bridge support	0
Building	2
Culvert	0
Curb	0
Ditch	4
Island/raised median	0
Embankment/retaining wall	1
Fence	1
Guardrail	0
Light pole	4
Sign post	1
Tree or shrubbery	0
Utility pole	1
Other pole or support	1
Mailbox	1
Other	11

Traffic Controls

No controls	236		55%
Traffic signals	74		17%
Stop sign	40		9%
Yield sign	2		
No passing zone (marked)	1		
R.R. warning sign	0	3	1%
R.R. automatic signal	0		
R.R. crossing gate	0		
Other/unknown/not stated	80		18%
Total no. of accidents	433		

262 3 103 45 5 1 11 17

Figures indicate number of accidents involving buses occurring under the conditions indicated.

*Some accident reports listed more than one type of weather condition.

ACCIDENTS INVOLVING

BUSES

In 1978 there were:
1 bus occupant killed
433 accidents involving buses
422 collision accidents involving buses
11 non-collision accidents involving buses

THE DRIVER*

Driver Action/ Contributing Circumstances**	Number of Drivers	% of Drivers Involved in Accidents
Ran traffic control	5	1.2
Improper passing	5	1.2
Left of center, not passing	6	1.5
Failure to yield	23	5.6
Wrong way, one-way road	0	0.0
Speed too fast	13	3.2
Drag racing	0	0.0
Improper turn	10	2.4
Improper lane change	10	2.4
Following too close	9	2.2
Improper or no signal	4	1.0
Disregarded R.R. signal	0	0.0
Disregarded warning signal	1	0.2
Reckless driving	1	0.2
Improper backing	8	1.9
Illegal or improper parking	1	0.2
Failure to have control	30	7.3
Lights not on	1	0.2
Physically unfit	0	0.0
Drinking	3	0.7
Inattentive/distracted	13	3.2
Confused/inexperienced	8	1.9
Vision obscured	4	1.0
Vehicle defect	8	1.9
Oversized vehicle	3	0.7
Other	15	3.6

Driver Condition

Apparently normal	344		83%
Physical defect	0		
Fatigued	1		
Apparently asleep	1		
Ill	0	7	2%
Under medication	0		
Infirmities of age	1		
Other	4		
Unknown	61		15%

*Based on 412 bus drivers for which information was available.
**0-2 actions/circumstances listed for each driver.

THE MACHINE

Vehicle Action	No. of Vehicles		
Going straight	204		47%
Turning left	56		13%
Turning right	25		
Making U-turn	0		
Passing	3		
Changing lanes	7		
Merging	3		
Parking	3	96	22%
Slowing-stopping	9		
Backing	11		
Stopped in traffic	22		
Parked	8		
Unattended moving vehicle	1		
Other	4		
Unknown/not stated	81		19%
Total no. of vehicles	437		

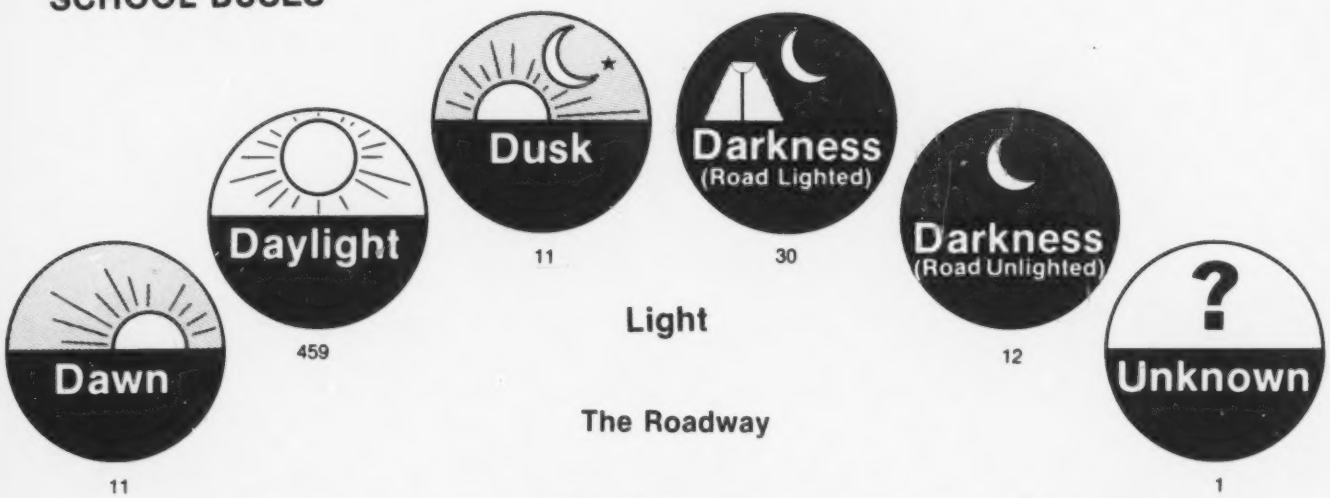
Vehicle Defects

None	223		51%
Brakes	4		
Lights	1		
Steering	0		
Wipers	0	11	3%
Tires	0		
Power failure	2		
Trailer hitch	1		
Other	3		
Unknown/not stated	203		46%
Total no. of vehicles	437		

Iowa

THE ENVIRONMENT

SCHOOL BUSES



Light

The Roadway

Contour

Straight, level	237		45%
Straight, up/downgrade	93		
Straight, hill crest	10		
Curve, level	23		
Curve, up/downgrade	26		
Curve, hill crest	3	254	48%
Intersection, level	66		
Intersection, up/downgrade	28		
Intersection, hill crest	5		
Unknown/not stated	33		
Total no. of accidents	524		6%

Fixed Object Struck

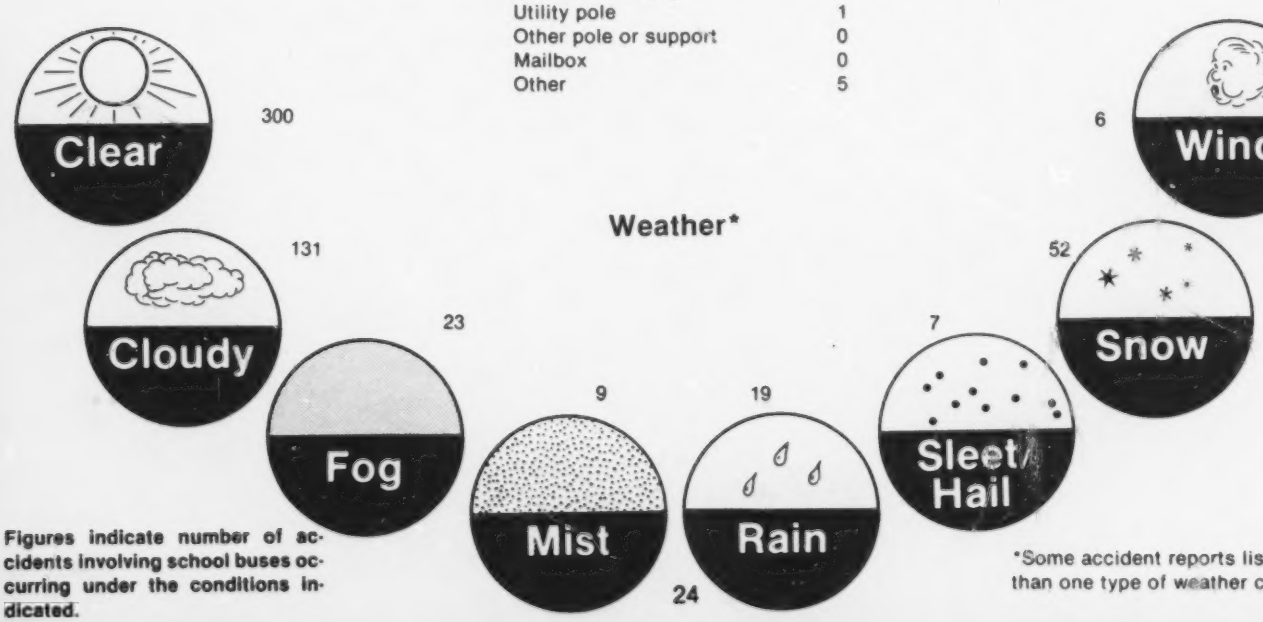
5% of all school buses involved in accidents struck fixed objects.

Bridge/overpass	1
Underpass/bridge support	0
Building	0
Culvert	0
Curb	0
Ditch	11
Island/raised median	0
Embankment/retaining wall	3
Fence	2
Guardrail	1
Light pole	1
Sign post	0
Tree or shrubbery	3
Utility pole	1
Other pole or support	0
Mailbox	0
Other	5

Traffic Controls

No controls	314		60%
Traffic signals	35		7%
Stop sign	54		10%
Yield sign	7		
No passing zone (marked)	3		
R.R. warning sign	2	12	2%
R.R. automatic signal	0		
R.R. crossing gate	0		
Other/unknown/not stated	109		21%
Total no. of accidents	524		

Weather*



Figures indicate number of accidents involving school buses occurring under the conditions indicated.

*Some accident reports listed more than one type of weather condition.

ACCIDENTS INVOLVING

SCHOOL BUSES

In 1978 there were:
1 school bus occupant killed
524 accidents involving school buses
507 collision accidents involving school buses
17 non-collision accidents involving school buses

THE DRIVER*

Driver Action/ Contributing Circumstances**	Number of Drivers	% of Drivers Involved in Accidents
Ran traffic control	8	1.7
Improper passing	5	1.1
Left of center, not passing	7	1.5
Failure to yield	50	10.9
Wrong way, one-way road	0	0.0
Speed too fast	20	4.4
Drag racing	0	0.0
Improper turn	8	1.7
Improper lane change	2	0.4
Following too close	9	2.0
Improper or no signal	2	0.4
Disregarded R.R. signal	0	0.0
Disregarded warning signal	0	0.0
Reckless driving	0	0.0
Improper backing	6	1.3
Illegal or improper parking	4	0.9
Failure to have control	29	6.3
Lights not on	0	0.0
Physically unfit	1	0.2
Drinking	2	0.4
Inattentive/distracted	14	3.1
Confused/inexperienced	5	1.1
Vision obscured	12	2.6
Vehicle defect	6	1.3
Oversized vehicle	3	0.7
Other	17	3.7

Driver Condition

Apparently normal	390		85%
Physical defect	2		
Fatigued	0		
Apparently asleep	0		
Ill	0	6	1%
Under medication	2		
Infirmities of age	0		
Other	2		
Unknown	62		14%

THE MACHINE

Vehicle Action	No. of Vehicles		
Going straight	214		40%
Turning left	67		13%
Turning right	30		
Making U-turn	1		
Passing	3		
Changing lanes	2		
Merging	0		
Parking	5	153	29%
Slowing-stopping	18		
Backing	21		
Stopped in traffic	30		
Parked	28		
Unattended moving vehicle	5		
Other	10		
Unknown/not stated	95		18%
Total no. of vehicles	529		

Vehicle Defects

None	278		53%
Brakes	1		
Lights	2		
Steering	0		
Wipers	0	7	1%
Tires	1		
Power failure	0		
Trailer hitch	0		
Other	3		
Unknown/not stated	244		46%
Total no. of vehicles	529		

*based on 458 school bus drivers for which information was available.
**0-2 actions/circumstances listed for each driver.

Iowa

THE ENVIRONMENT

BICYCLES

27 36 452 13 4 0

Light

The Roadway

Contour

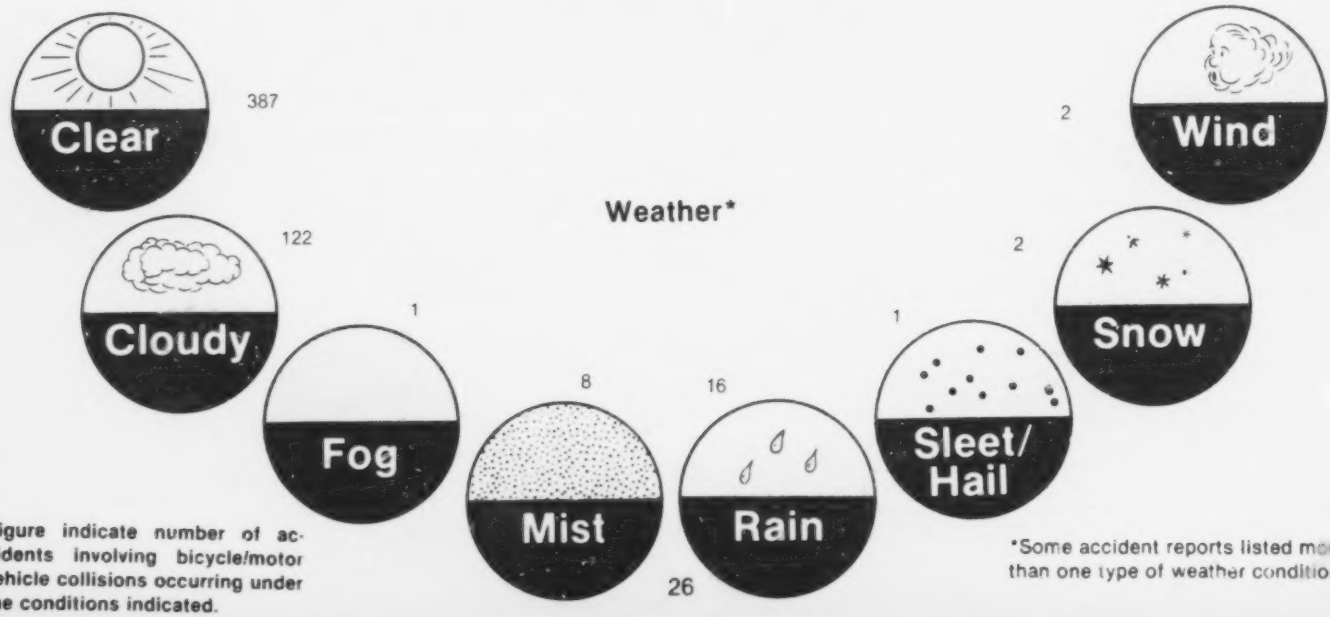
Straight, level	285		54%
Straight, up/downgrade	85		
Straight, hill crest	4		
Curve, level	8		
Curve, up/downgrade	9		
Curve, hill crest	2	225	42%
Intersection, level	72		
Intersection, up/downgrade	43		
Intersection, hill crest	2		
Unknown/not stated	22		
Total no. of accidents	532		4%

Motor Vehicle Involved

Automobile	415
Automobile with trailer	1
Panel truck	11
Pickup	53
Pickup with trailer	1
Pickup with camper	3
Straight truck	4
Tractor with trailer	2
Bus	2
School bus	2
Farm vehicle	3
Motorcycle	21
Recreational vehicle	1
Other	11
Unknown	2
Total no. of vehicles	532

Traffic Controls

No controls	371		70%
Traffic signals	40		8%
Stop sign	85		16%
Yield sign	5		
No passing zone (marked)	4		
R.R. warning sign	0	9	2%
R.R. automatic signal	0		
R.R. crossing gate	0		
Other/unknown/not stated	27		5%
Total no. of accidents	532		



387 2 122 2 1 1 8 16

Weather*

Figure indicate number of accidents involving bicycle/motor vehicle collisions occurring under the conditions indicated.

*Some accident reports listed more than one type of weather condition.

ACCIDENTS INVOLVING

BICYCLES

In 1978 there were:
- **5 bicycle riders killed**
- **532 bicycle/motor vehicle accidents**

THE DRIVER* OF MOTOR VEHICLE INVOLVED

Driver Action/ Contributing Circumstances**	Number of Drivers	% of Drivers Involved in Accidents
Ran traffic control	3	0.6
Improper passing	3	0.6
Left of center, not passing	2	0.4
Failure to yield	55	10.6
Wrong way, one-way road	0	0.0
Speed too fast	4	0.8
Drag racing	0	0.0
Improper turn	4	0.8
Improper lane change	0	0.0
Following too close	3	0.6
Improper or no signal	1	0.2
Disregarded R.R. signal	0	0.0
Disregarded warning signal	0	0.0
Reckless driving	3	0.6
Improper backing	3	0.6
Illegal or improper parking	0	0.0
Failure to have control	10	1.9
Lights not on	0	0.0
Physically unfit	0	0.0
Drinking	3	0.6
Inattentive/distracted	20	3.9
Confused/inexperienced	9	1.7
Vision obscured	30	5.8
Vehicle defect	2	0.4
Oversized vehicle	0	0.0
Other	9	1.7

Driver Condition

Apparently normal	454		88%
Physical defect	1		
Fatigued	0		
Apparently asleep	0		
Ill	0	9	2%
Under medication	0		
Infirmities of age	3		
Other	5		
Unknown	55		11%

*Based on 518 motor vehicle drivers for which information was available.

**0-2 actions/circumstances listed for each driver.

THE MACHINE (MOTOR VEHICLE INVOLVED)

Vehicle Action	No. of Vehicles		
Going straight	348		65%
Turning left	60		11%
Turning right	39		
Making U-turn	0		
Passing	11		
Changing lanes	0		
Merging	3		
Parking	2	88	17%
Slowing-stopping	5		
Backing	14		
Stopped in traffic	5		
Parked	3		
Unattended moving vehicle	0		
Other	6		
Unknown/not stated	36		7%
Total no. of vehicles	532		

Vehicle Defects

None	310		58%
Brakes	4		
Lights	0		
Steering	0		
Wipers	0	6	1%
Tires	0		
Power failure	0		
Trailer hitch	0		
Other	2		
Unknown/not stated	216		41%
Total no. of vehicles	532		

Iowa

THE ENVIRONMENT

MOTORCYCLES

Light

The Roadway

Contour

Straight, level	1,234		49%
Straight, up/downgrade	355		
Straight, hill crest	34		
Curve, level	187		
Curve, up/downgrade	113		
Curve, hill crest	12	1,194	47%
Intersection, level	370		
Intersection, up/downgrade	113		
Intersection, hill crest	10		
Unknown/not stated	88		
Total no. of accidents	2,516		3%

Fixed Object Struck

12% of all motorcycles involved in accidents struck fixed objects.

Bridge/overpass	7
Underpass/bridge support	1
Building	6
Culvert	7
Curb	58
Ditch	63
Island/raised median	16
Embankment/retaining wall	11
Fence	17
Guardrail	12
Light pole	9
Sign post	20
Tree or shrubbery	13
Utility pole	9
Other pole or support	8
Mailbox	4
Other	45

Traffic Controls

No controls	1,733		69%
Traffic signals	234		9%
Stop sign	126		5%
Yield sign	9		
No passing zone (marked)	18		
R.R. warning sign	3	36	1%
R.R. automatic signal	5		
R.R. crossing gate	1		
Other/unknown/not stated	387		15%
Total no. of accidents	2,516		

Weather*

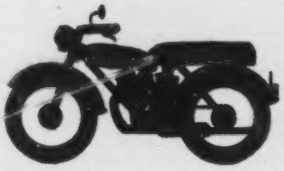
Figures indicate number of accidents involving motorcycles occurring under the conditions indicated.

*Some accident reports listed more than one type of weather condition.

ACCIDENTS INVOLVING

MOTORCYCLES

In 1978 there were:
75 motorcycle operators or passengers killed (includes 1 known moped rider fatality)
2,516 accidents involving motorcycles
1,969 collision accidents involving motorcycles
547 non-collision accidents involving motorcycles



THE OPERATOR*

Operator Action/ Contributing Circumstances**	Number of Operators	% of Operators Involved in Accidents
Ran traffic control	53	2.1
Improper passing	73	2.9
Left of center, not passing	29	1.2
Failure to yield	106	4.3
Wrong way, one-way road	2	0.1
Speed too fast	196	7.9
Drag racing	1	0.0
Improper turn	14	0.6
Improper lane change	11	0.4
Following too close	53	2.1
Improper or no signal	15	0.6
Disregarded R.R. signal	2	0.1
Disregarded warning signal	8	0.3
Reckless driving	27	1.1
Improper backing	1	0.0
Illegal or improper parking	3	0.1
Failure to have control	408	16.4
Lights not on	9	0.4
Physically unfit	7	0.3
Drinking	52	2.1
Inattentive/distracted	116	4.7
Confused/inexperienced	137	5.5
Vision obscured	42	1.7
Vehicle defect	52	2.1
Oversized vehicle	0	0.0
Other	157	6.3

Operator Condition			
Apparently normal	1,934		78%
Physical defect	6		
Fatigued	11		
Apparently asleep	2		
Ill	0	68	3%
Under medication	0		
Infirmities of age	1		
Other	48		
Unknown	492		20%

THE MACHINE

Vehicle Action	No. of Vehicles		
Going straight	1,766		69%
Turning left	176		7%
Turning right	82		
Making U-turn	13		
Passing	64		
Changing lanes	14		
Merging	17		
Parking	2	316	12%
Slowing-stopping	16		
Backing	2		
Stopped in traffic	32		
Parked	22		
Unattended moving vehicle	0		
Other	52		
Unknown/not stated	319		12%
Total no. of vehicles	2,577		

Vehicle Defects			
None	1,245		48%
Brakes	17		
Lights	10		
Steering	7		
Tires	11	66	3%
Power failure	3		
Trailer hitch	0		
Other	18		
Unknown/not stated	1,266		49%
Total no. of vehicles	2,577		

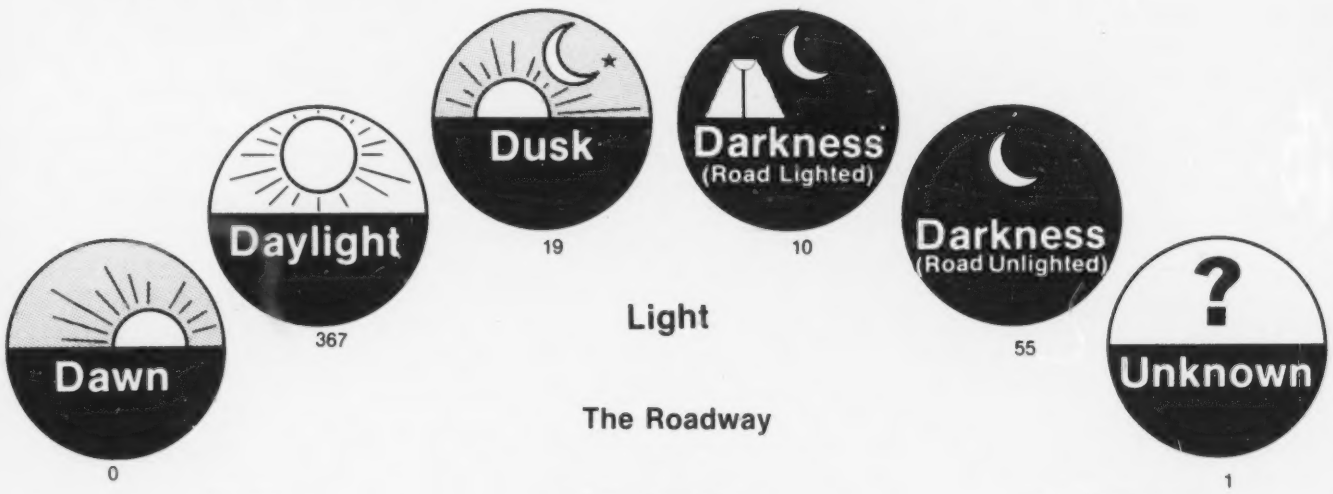
*Based on 2,494 motorcycle operators for which information was available.

**0-2 actions/circumstances listed for each operator.

Iowa

FARM VEHICLES

THE ENVIRONMENT



19 10 367 55 0 1

Light

The Roadway

Contour

Straight, level	233		52%
Straight, up/downgrade	118		
Straight, hill crest	20		
Curve, level	11		
Curve, up/downgrade	11		
Curve, hill crest	0	204	45%
Intersection, level	27		
Intersection, up/downgrade	15		
Intersection, hill crest	2		
Unknown/not stated	15		
Total no. of accidents	452		3%

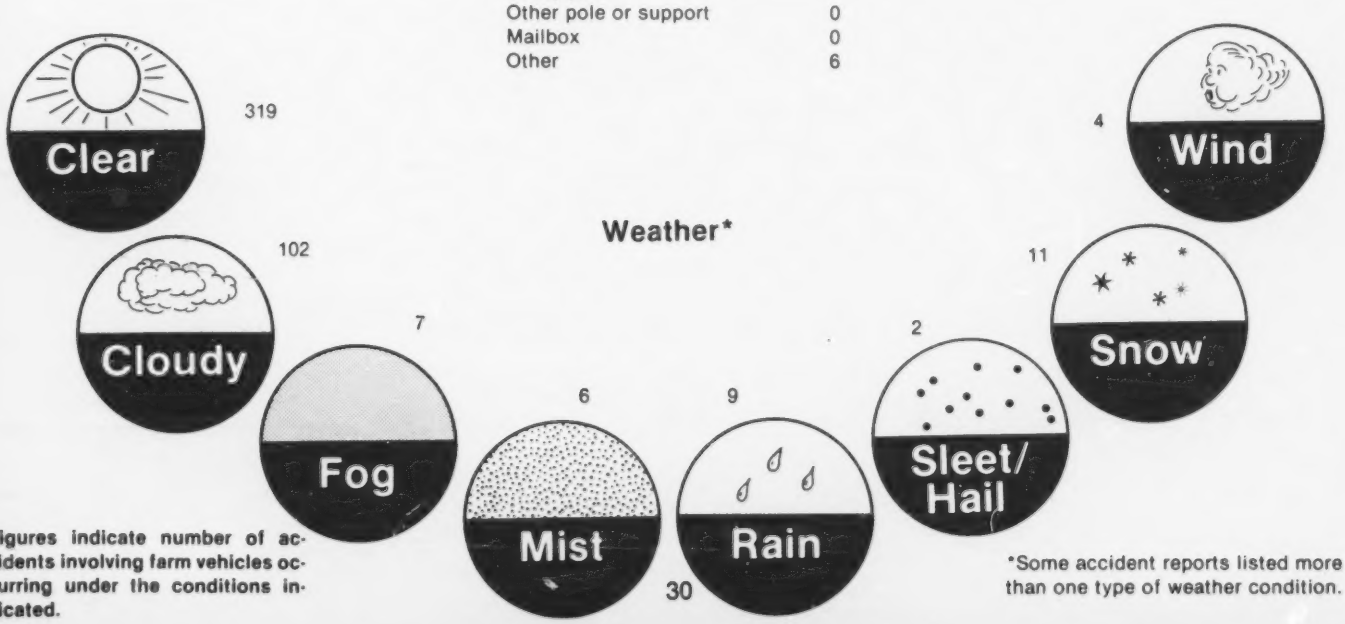
Fixed Object Struck

6% of all farm vehicles involved in accidents struck fixed objects.

Bridge/overpass	3
Underpass/bridge support	1
Building	0
Culvert	1
Curb	1
Ditch	12
Island/raised median	0
Embankment/retaining wall	0
Fence	1
Guardrail	1
Light pole	0
Sign post	1
Tree or shrubbery	0
Utility pole	1
Other pole or support	0
Mailbox	0
Other	6

Traffic Controls

No controls	322		71%
Traffic signals	4		1%
Stop sign	21		5%
Yield sign	1		
No passing zone (marked)	18		
R.R. warning sign	1	22	5%
R.R. automatic signal	2		
R.R. crossing gate	0		
Other/unknown/not stated	83		18%
Total no. of accidents	452		



319 4 102 11 7 2 6 9

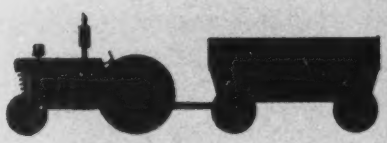
Weather*

Figures indicate number of accidents involving farm vehicles occurring under the conditions indicated.

*Some accident reports listed more than one type of weather condition.

ACCIDENTS INVOLVING

FARM VEHICLES



In 1978 there were:
7 farm vehicle occupants killed
452 accidents involving farm vehicles
395 collision accidents involving farm vehicles
57 non-collision accidents involving farm vehicles

THE DRIVER*

Driver Action/ Contributing Circumstances**	Number of Drivers	% of Drivers Involved in Accidents
Ran traffic control	2	0.5
Improper passing	1	0.2
Left of center, not passing	14	3.3
Failure to yield	39	9.3
Wrong way, one-way road	0	0.0
Speed too fast	4	1.0
Drag racing	1	0.2
Improper turn	14	3.3
Improper lane change	2	0.5
Following too close	0	0.0
Improper or no signal	42	10.0
Disregarded R.R. signal	0	0.0
Disregarded warning signal	0	0.0
Reckless driving	1	0.2
Improper backing	3	0.7
Illegal or improper parking	2	0.5
Failure to have control	10	2.4
Lights not on	3	0.7
Physically unfit	2	0.5
Drinking	4	1.0
Inattentive/distracted	18	4.3
Confused/inexperienced	3	0.7
Vision obscured	15	3.6
Vehicle defect	16	3.8
Oversized vehicle	8	1.9
Other	21	5.0

Driver Condition			
Apparently normal	358		85%
Physical defect	2		
Fatigued	0		
Apparently asleep	3		
Ill	1	10	2%
Under medication	0		
Infirmities of age	1		
Other	3		
Unknown	53		13%

THE MACHINE

Vehicle Action	No. of Vehicles		
Going straight	204		45%
Turning left	115		25%
Turning right	28		
Making U-turn	4		
Passing	6		
Changing lanes	3		
Merging	2		
Parking	1	72	16%
Slowing-stopping	1		
Backing	6		
Stopped in traffic	5		
Parked	8		
Unattended moving vehicle	0		
Other	8		
Unknown/not stated	64		14%
Total no. of vehicles	455		

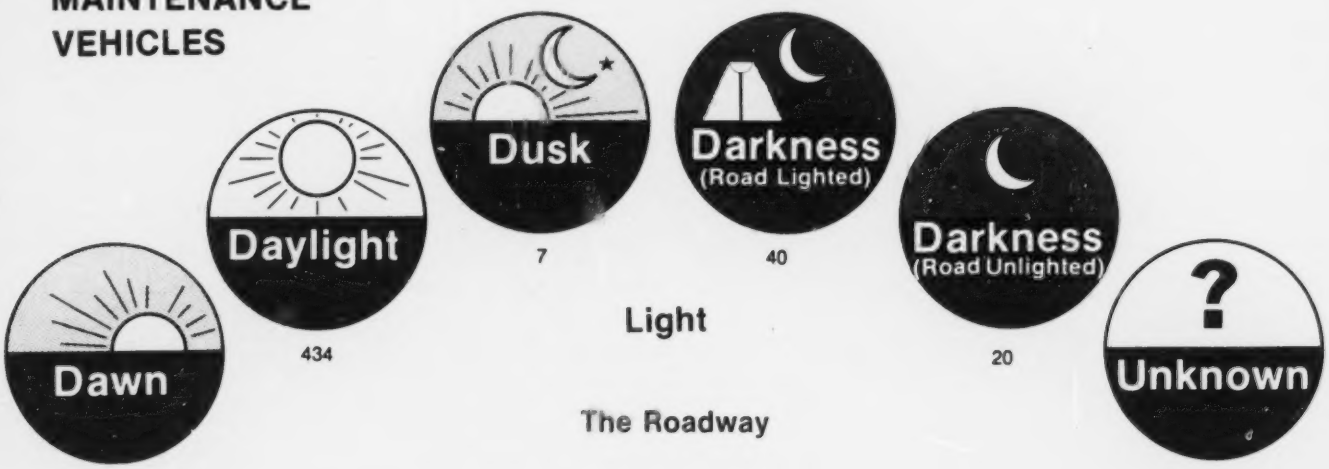
Vehicle Defects			
None	243		53%
Brakes	3		
Lights	8		
Steering	2		
Wipers	0	18	4%
Tires	1		
Power failure	1		
Trailer hitch	1		
Other	2		
Unknown/not stated	194		43%
Total no. of vehicles	455		

*Based on 421 farm vehicle drivers for which information was available.
**0-2 actions/circumstances listed for each driver.

Iowa

THE ENVIRONMENT

MAINTENANCE VEHICLES



7 40 434 20 3 2

Light

The Roadway

Contour

Straight, level	271		54%
Straight, up/downgrade	97		
Straight, hill crest	10		
Curve, level	18		
Curve, up/downgrade	19		
Curve, hill crest	0	216	43%
Intersection, level	52		
Intersection, up/downgrade	17		
Intersection, hill crest	3		
Unknown/not stated	19		
Total no. of accidents	506		4%

Fixed Object Struck

6% of all maintenance vehicles involved in accidents struck fixed objects.

Bridge/overpass	3
Underpass/bridge support	0
Building	0
Culvert	0
Curb	4
Ditch	5
Island/raised median	0
Embankment/retaining wall	0
Fence	1
Guardrail	1
Light pole	0
Sign post	1
Tree or shrubbery	1
Utility pole	3
Other pole or support	3
Mailbox	1
Other	6

Traffic Controls

No controls	319		63%
Traffic signals	31		6%
Stop sign	35		7%
Yield sign	5		
No passing zone (marked)	8		
R.R. warning sign	1	14	3%
R.R. automatic signal	0		
R.R. crossing gate	0		
Other/unknown/not stated	107		21%
Total no. of accidents	506		

282 15 136 76 9 7 6 17 32

Weather*

Figures indicate number of accidents involving maintenance vehicles occurring under the conditions indicated.

*Some accident reports listed more than one type of weather condition.

ACCIDENTS INVOLVING

MAINTENANCE VEHICLES

In 1978 there were:

1 maintenance vehicle occupant killed
506 accidents involving maintenance vehicles
465 collision accidents involving maintenance vehicles
41 non-collision accidents involving maintenance vehicles

THE DRIVER*

Driver Action/ Contributing Circumstances**	Number of Drivers	% of Drivers Involved in Accidents
Ran traffic control	5	1.1
Improper passing	6	1.3
Left of center, not passing	8	1.7
Failure to yield	29	6.1
Wrong way, one-way road	1	0.2
Speed too fast	6	1.3
Drag racing	0	0.0
Improper turn	5	1.1
Improper lane change	6	1.3
Following too close	8	1.7
Improper or no signal	3	0.6
Disregarded R.R. signal	0	0.0
Disregarded warning signal	1	0.2
Reckless driving	0	0.0
Improper backing	30	6.4
Illegal or improper parking	3	0.6
Failure to have control	15	3.2
Lights not on	1	0.2
Physically unfit	0	0.0
Drinking	0	0.0
Inattentive/distracted	22	4.7
Confused/inexperienced	7	1.5
Vision obscured	21	4.4
Vehicle defect	15	3.2
Oversized vehicle	9	1.9
Other	27	5.7

Driver Condition			
Apparently normal	402		85%
Physical defect	1		
Fatigued	1		
Apparently asleep	0		
Ill	0	5	1%
Under medication	0		
Infirmities of age	1		
Other	2		
Unknown	65		14%

THE MACHINE

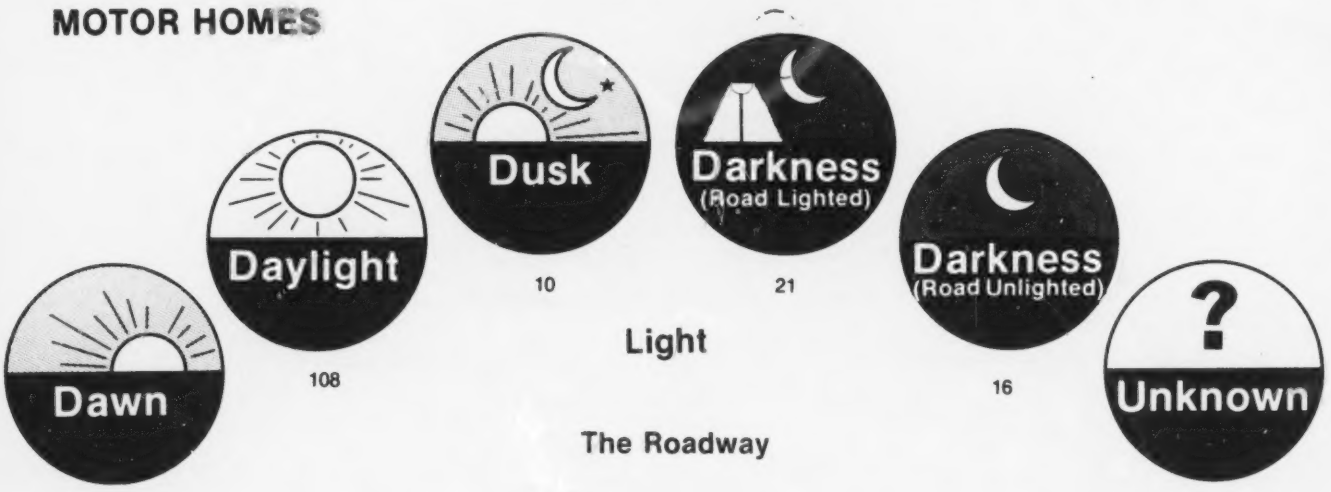
Vehicle Action	No. of Vehicles		
Going straight	229		45%
Turning left	39		8%
Turning right	21		
Making U-turn	2		
Passing	4		
Changing lanes	5		
Merging	3		
Parking	2	163	32%
Slowing-stopping	10		
Backing	60		
Stopped in traffic	21		
Parked	11		
Unattended moving vehicle	2		
Other	22		
Unknown/not stated	82		16%
Total no. of vehicles	513		

Vehicle Defects			
None	279		54%
Brakes	5		
Lights	3		
Steering	3		
Wipers	0	17	3%
Tires	1		
Power failure	1		
Trailer hitch	0		
Other	4		
Unknown/not stated	217		42%
Total no. of vehicles	513		

*Based on 472 maintenance vehicle drivers for which information was available.
**0-2 actions/circumstances listed for each driver.

THE ENVIRONMENT

MOTOR HOMES



Light

The Roadway

Contour

Straight, level	85		53%
Straight, up/downgrade	28		
Straight, hill crest	0		
Curve, level	7		
Curve, up/downgrade	4		
Curve, hill crest	0	67	42%
Intersection, level	23		
Intersection, up/downgrade	5		
Intersection, hill crest	0		
Unknown/not stated	7		
Total no. of accidents	159		4%

Fixed Object Struck

9% of all motor homes involved in accidents struck fixed objects.

Bridge/overpass	2
Underpass/bridge support	0
Building	0
Culvert	0
Curb	0
Ditch	4
Island/raised median	0
Embankment/retaining wall	0
Fence	0
Guardrail	2
Light pole	0
Sign post	2
Tree or shrubbery	0
Utility pole	1
Other pole or support	0
Mailbox	0
Other	4

Traffic Controls

No controls	94		59%
Traffic signals	16		10%
Stop sign	15		9%
Yield sign	1		
No passing zone (marked)	1		
R.R. warning sign	0	3	2%
R.R. automatic signal	1		
R.R. crossing gate	0		
Other/unknown/not stated	31		20%
Total no. of accidents	159		

Weather*

Figures indicate number of accidents involving motor homes occurring under the conditions indicated.

*Some accident reports listed more than one type of weather condition.

ACCIDENTS INVOLVING

MOTOR HOMES

In 1978 there were:

1 motor home occupant killed
159 accidents involving motor homes
152 collision accidents involving motor homes
7 non-collision accidents involving motor homes

THE DRIVER*

Driver Action/ Contributing Circumstances**	Number of Drivers	% of Drivers Involved in Accidents
Ran traffic control	5	3.5
Improper passing	0	0.0
Left of center, not passing	0	0.0
Failure to yield	12	8.5
Wrong way, one-way road	0	0.0
Speed too fast	1	0.7
Drag racing	0	0.0
Improper turn	1	0.7
Improper lane change	3	2.1
Following too close	3	2.1
Improper or no signal	0	0.0
Disregarded R.R. signal	0	0.0
Disregarded warning signal	0	0.0
Reckless driving	0	0.0
Improper backing	2	1.4
Illegal or improper parking	0	0.0
Failure to have control	13	9.2
Lights not on	0	0.0
Physically unfit	0	0.0
Drinking	2	1.4
Inattentive/distracted	9	6.4
Confused/inexperienced	2	1.4
Vision obscured	4	2.8
Vehicle defect	1	0.7
Oversized vehicle	1	0.7
Other	5	3.5

Driver Condition

Apparently normal	118		84%
Physical defect	0		
Fatigued	2		
Apparently asleep	1		
Ill	0	3	2%
Under medication	0		
Infirmities of age	0		
Other	0		
Unknown	20		14%

*Based on 141 motor home drivers for which information was available.
**0-2 actions/circumstances listed for each driver.

THE MACHINE

Vehicle Action	No. of Vehicles		
Going straight	81		51%
Turning left	14		9%
Turning right	3		
Making U-turn	0		
Passing	0		
Changing lanes	2		
Merging	1		
Parking	1	36	23%
Slowing-stopping	4		
Backing	5		
Stopped in traffic	8		
Parked	9		
Unattended moving vehicle	1		
Other	2		
Unknown/not stated	28		18%
Total no. of vehicles	159		

Vehicle Defects

None	87		55%
Brakes	1		
Lights	0		
Steering	0		
Wipers	0	3	2%
Tires	0		
Power failure	0		
Trailer hitch	0		
Other	2		
Unknown/not stated	69		43%
Total no. of vehicles	159		

THE ENVIRONMENT

RECREATIONAL VEHICLES

Light

The Roadway

Contour

Straight, level	141		49%
Straight, up/downgrade	52		
Straight, hill crest	10		
Curve, level	16		
Curve, up/downgrade	9		
Curve, hill crest	1	128	44%
Intersection, level	30		
Intersection, up/downgrade	7		
Intersection, hill crest	3		
Unknown/not stated	20		
Total no. of accidents	289		7%

Fixed Object Struck

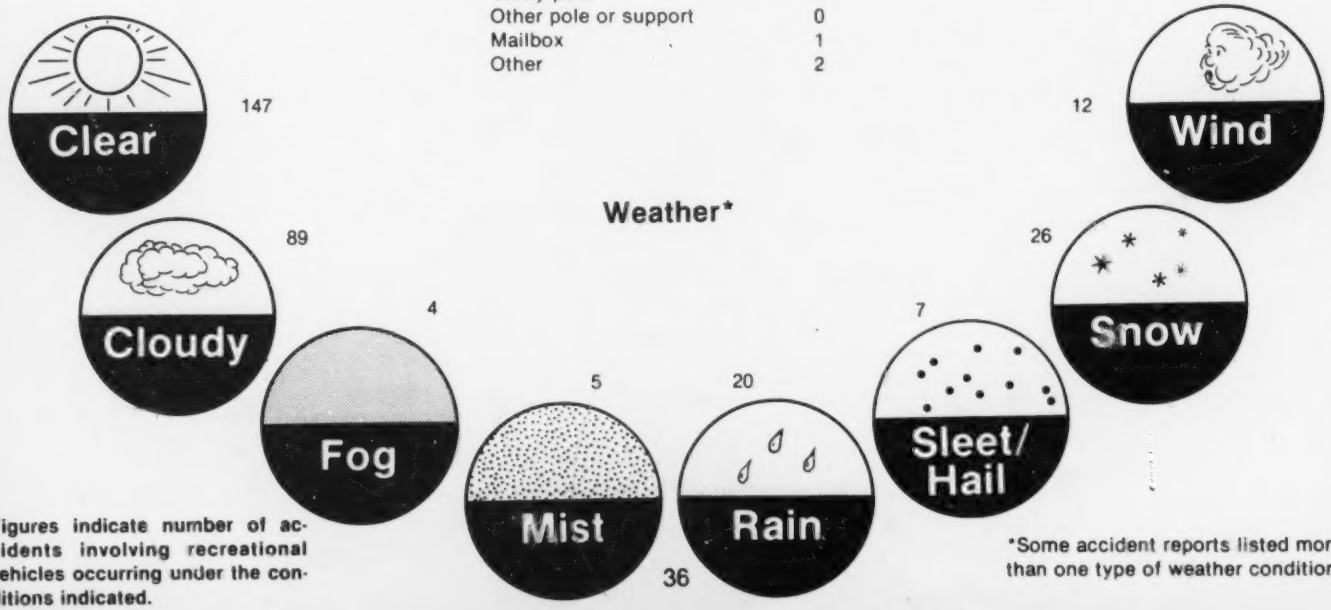
11% of all recreational vehicles involved in accidents struck fixed objects.

Bridge/overpass	1
Underpass/bridge support	0
Building	2
Culvert	1
Curb	12
Ditch	10
Island/raised median	0
Embankment/retaining wall	0
Fence	2
Guardrail	4
Light pole	1
Sign post	1
Tree or shrubbery	2
Utility pole	3
Other pole or support	0
Mailbox	1
Other	2

Traffic Controls

No controls	181		63%
Traffic signals	25		9%
Stop sign	18		6%
Yield sign	3		
No passing zone (marked)	2		
R.R. warning sign	1	6	2%
R.R. automatic signal	0		
R.R. crossing gate	0		
Other/unknown/not stated	59		20%
Total no. of accidents	289		

Weather*



Figures indicate number of accidents involving recreational vehicles occurring under the conditions indicated.

*Some accident reports listed more than one type of weather condition.

ACCIDENTS INVOLVING

RECREATIONAL VEHICLES

In 1978 there were:

3 recreational vehicle occupants killed
289 accidents involving recreational vehicles
253 collision accidents involving recreational vehicles
36 non-collision accidents involving recreational vehicles

THE DRIVER*

Driver Action/ Contributing Circumstances**	Number of Drivers	% of Drivers Involved in Accidents
Ran traffic control	9	3.4
Improper passing	1	0.4
Left of center, not passing	5	1.9
Failure to yield	22	8.3
Wrong way, one-way road	1	0.4
Speed too fast	19	7.2
Drag racing	1	0.4
Improper turn	4	1.5
Improper lane change	6	2.3
Following too close	6	2.3
Improper or no signal	0	0.0
Disregarded R.R. signal	1	0.4
Disregarded warning signal	0	0.0
Reckless driving	1	0.4
Improper backing	3	1.1
Illegal or improper parking	0	0.0
Failure to have control	39	14.8
Lights not on	0	0.0
Physically unfit	2	0.8
Drinking	5	1.9
Inattentive/distracted	19	7.2
Confused/inexperienced	4	1.5
Vision obscured	8	3.0
Vehicle defect	0	0.0
Oversized vehicle	0	0.0
Other	19	7.2

Driver Condition			
Apparently normal	196		74%
Physical defect	0		
Fatigued	2		
Apparently asleep	2		
Ill	0	7	3%
Under medication	0		
Infirmities of age	0		
Other	3		
Unknown	61		23%

THE MACHINE

Vehicle Action	No. of Vehicles		
Going straight	149		51%
Turning left	26		9%
Turning right	12		
Making U-turn	0		
Passing	2		
Changing lanes	4		
Merging	1		
Parking	0	66	23%
Slowing-stopping	7		
Backing	6		
Stopped in traffic	12		
Parked	15		
Unattended moving vehicle	0		
Other	7		
Unknown/not stated	50		17%
Total no. of vehicles	291		

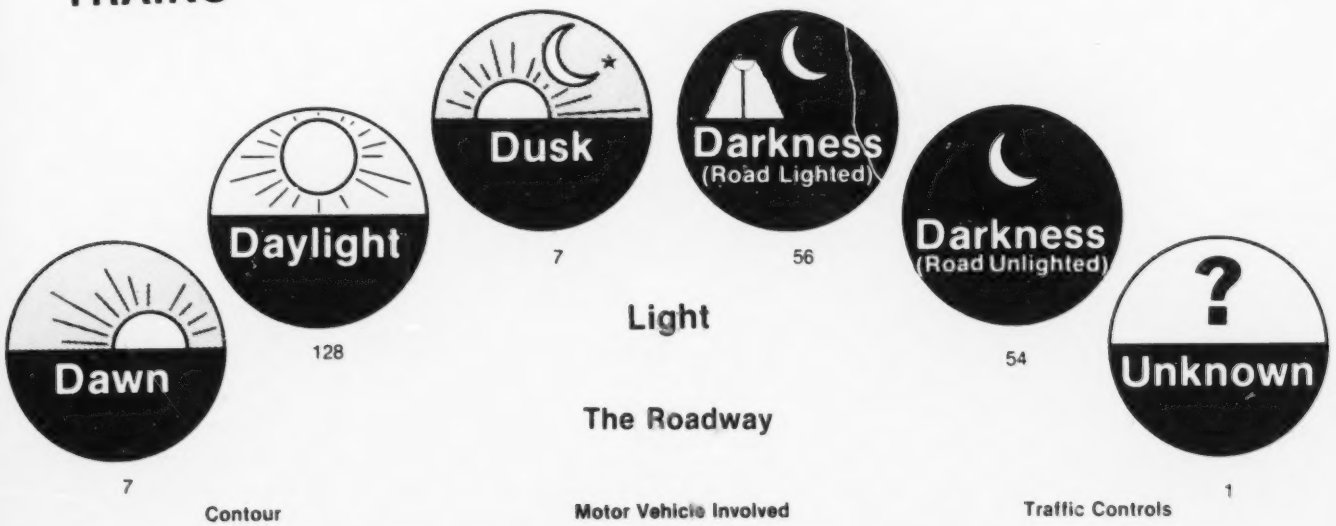
Vehicle Defects			
None	121		42%
Brakes	0		
Lights	0		
Steering	0		
Wipers	0	0	0%
Tires	0		
Power failure	0		
Trailer hitch	0		
Other	0		
Unknown/not stated	170		58%
Total no. of vehicles	291		

*Based on 264 recreational vehicle drivers for which information was available.
**0-2 actions/circumstances listed for each driver.

Iowa

THE ENVIRONMENT

TRAINS



7 128 7 56 54 1

Light

The Roadway

Contour

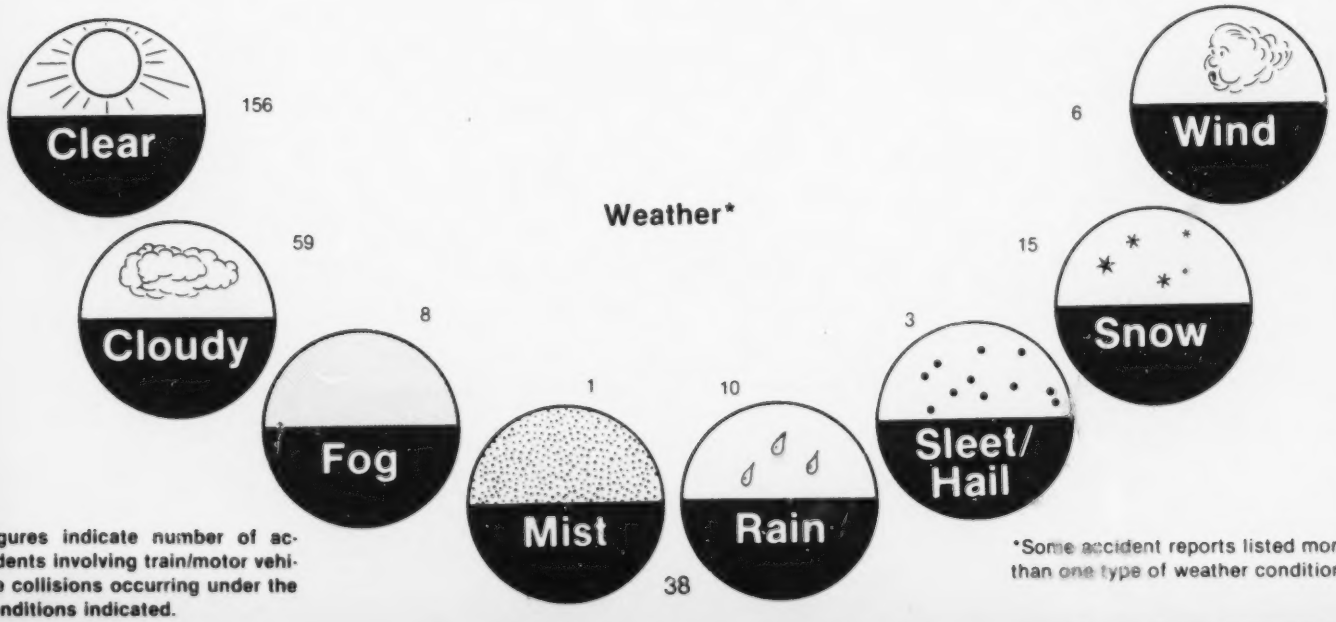
Straight, level	156		62%
Straight, up/downgrade	45		
Straight, hill crest	4		
Curve, level	6		
Curve, up/downgrade	3		
Curve, hill crest	0	88	35%
Intersection, level	20		
Intersection, up/downgrade	9		
Intersection, hill crest	1		
Unknown/not stated	9		
Total no. of accidents	253		4%

Motor Vehicle Involved

Automobile	164		56%
Panel truck	8		
Pickup	42		
Pickup with trailer	1		
Straight truck	9		
Truck tractor	7	98	34%
Farm vehicle/equipment	3		
Motorcycle	4		
Recreational vehicle	1		
Other	8		
Unknown	29		
Total no. of vehicles	291		10%

Traffic Controls

No controls	49		19%
Traffic signals	3		2%
Stop sign	12		5%
Yield sign	2		
No passing zone (marked)	0		
R.R. warning sign	89	157	62%
R.R. automatic signal	58		
R.R. crossing gate	8		
Other/unknown/not stated	32		13%
Total no. of accidents	253		



156 6 59 15 8 3 1 10

Figures indicate number of accidents involving train/motor vehicle collisions occurring under the conditions indicated.

*Some accident reports listed more than one type of weather condition.

ACCIDENTS INVOLVING

TRAINS

In 1978 there were:
17 persons killed in train/motor vehicle accidents
150 persons injured in train/motor vehicle accidents
253 train/motor vehicle accidents involving 253 trains and 291 motor vehicles

THE DRIVER* OF MOTOR VEHICLE INVOLVED

Driver Action/ Contributing Circumstances**	Number of Drivers	% of Drivers Involved in Accidents
Ran traffic control	6	2.3
Improper passing	0	0.0
Left of center, not passing	0	0.0
Failure to yield	20	7.8
Wrong way, one-way road	0	0.0
Speed too fast	10	3.9
Drag racing	0	0.0
Improper turn	0	0.0
Improper lane change	0	0.0
Following too close	0	0.0
Improper or no signal	2	0.8
Disregarded R.R. signal	43	16.7
Disregarded warning signal	23	8.9
Reckless driving	0	0.0
Improper backing	0	0.0
Illegal or improper parking	1	0.4
Failure to have control	16	6.2
Lights not on	0	0.0
Physically unfit	1	0.4
Drinking	4	1.6
Inattentive/distracted	36	14.0
Confused/inexperienced	8	3.1
Vision obscured	11	4.3
Vehicle defect	3	1.2
Oversized vehicle	0	0.0
Other	13	5.1

Driver Condition			
Apparently normal	204		79%
Physical defect	2		
Fatigued	3		
Apparently asleep	0		
Ill	0	12	5%
Under medication	0		
Infirmities of age	2		
Other	5		
Unknown	41		16%

THE MACHINE (MOTOR VEHICLE INVOLVED)

	No. of Vehicles		
Going straight	230		79%
Turning left	2		1%
Turning right	2		
Making U-turn	0		
Passing	0		
Changing lanes	0		
Merging	2		
Parking	0	37	13%
Slowing-stopping	5		
Backing	0		
Stopped in traffic	11		
Parked	6		
Unattended moving vehicle	0		
Other	11		
Unknown/not stated	22		8%
Total no. of vehicles	291		

Vehicle Defects			
None	120		41%
Brakes	3		
Lights	0		
Steering	0		
Wipers	0	5	2%
Tires	0		
Power failure	2		
Trailer hitch	0		
Other	0		
Unknown/not stated	166		57%
Total no. of vehicles	291		

*Based on 257 motor vehicle drivers for which information was available.
**0-2 actions/circumstances listed for each driver.

THE ENVIRONMENT

PANEL TRUCKS

Light

The Roadway

Contour

Straight, level	1,940		54%
Straight, up/downgrade	525		
Straight, hill crest	41		
Curve, level	130		
Curve, up/downgrade	90		
Curve, hill crest	9	1,452	40%
Intersection, level	489		
Intersection, up/downgrade	154		
Intersection, hill crest	14		
Unknown/not stated	201		
Total no. of accidents	3,593		6%

Fixed Object Struck

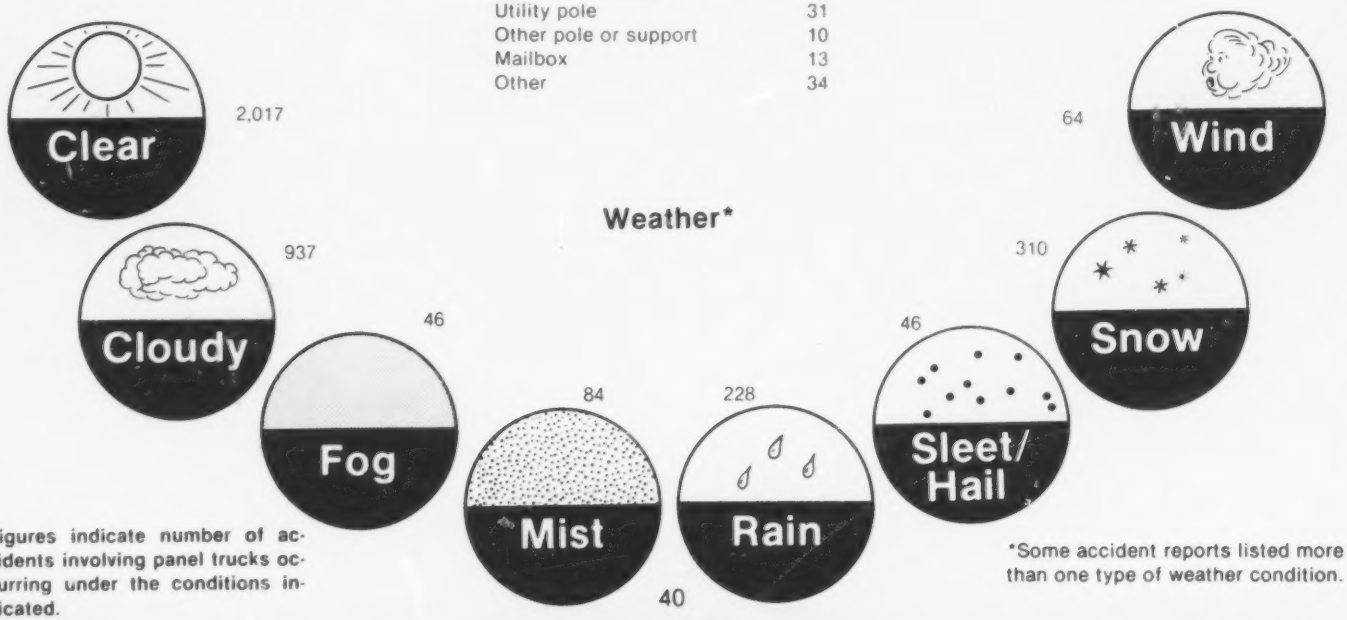
10% of all panel trucks involved in accidents struck fixed objects.

Bridge/overpass	18
Underpass/bridge support	4
Building	9
Culvert	9
Curb	14
Ditch	70
Island/raised median	5
Embankment/retaining wall	10
Fence	24
Guardrail	21
Light pole	31
Sign post	30
Tree or shrubbery	19
Utility pole	31
Other pole or support	10
Mailbox	13
Other	34

Traffic Controls

No controls	2,052		57%
Traffic signals	436		12%
Stop sign	313		9%
Yield sign	25		
No passing zone (marked)	18		
R.R. warning sign	4	56	2%
R.R. automatic signal	8		
R.R. crossing gate	1		
Other/unknown/not stated	736		20%
Total no. of accidents	3,593		

Weather*

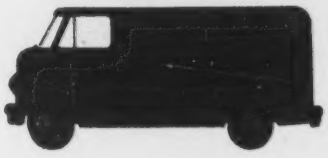


Figures indicate number of accidents involving panel trucks occurring under the conditions indicated.

*Some accident reports listed more than one type of weather condition.

ACCIDENTS INVOLVING

PANEL TRUCKS



In 1978 there were:

14 panel truck occupants killed
3,593 accidents involving panel trucks
3,379 collision accidents involving panel trucks
214 non-collision accidents involving panel trucks

THE DRIVER*

Driver Action/ Contributing Circumstances**	Number of Drivers	% of Drivers Involved in Accidents
Ran traffic control	85	2.6
Improper passing	34	1.0
Left of center, not passing	26	0.8
Failure to yield	307	9.2
Wrong way, one-way road	3	0.1
Speed too fast	135	4.1
Drag racing	0	0.0
Improper turn	57	1.7
Improper lane change	51	1.5
Following too close	65	2.0
Improper or no signal	13	0.4
Disregarded R.R. signal	1	0.0
Disregarded warning signal	7	0.2
Reckless driving	13	0.4
Improper backing	93	2.8
Illegal or improper parking	9	0.3
Failure to have control	322	9.7
Lights not on	7	0.2
Physically unfit	17	0.5
Drinking	75	2.3
Inattentive/distracted	149	4.5
Confused/inexperienced	36	1.1
Vision obscured	87	2.6
Vehicle defect	35	1.1
Oversized vehicle	3	0.1
Other	124	3.7

Driver Condition			
Apparently normal	2,541		77%
Physical defect	6		
Fatigued	25		
Apparently asleep	29		
Ill	3	140	4%
Under medication	4		
Infirmities of age	5		
Other	68		
Unknown	642		19%

*Based on 3,323 panel truck drivers for which information was available.
**0-2 actions/circumstances listed for each driver.

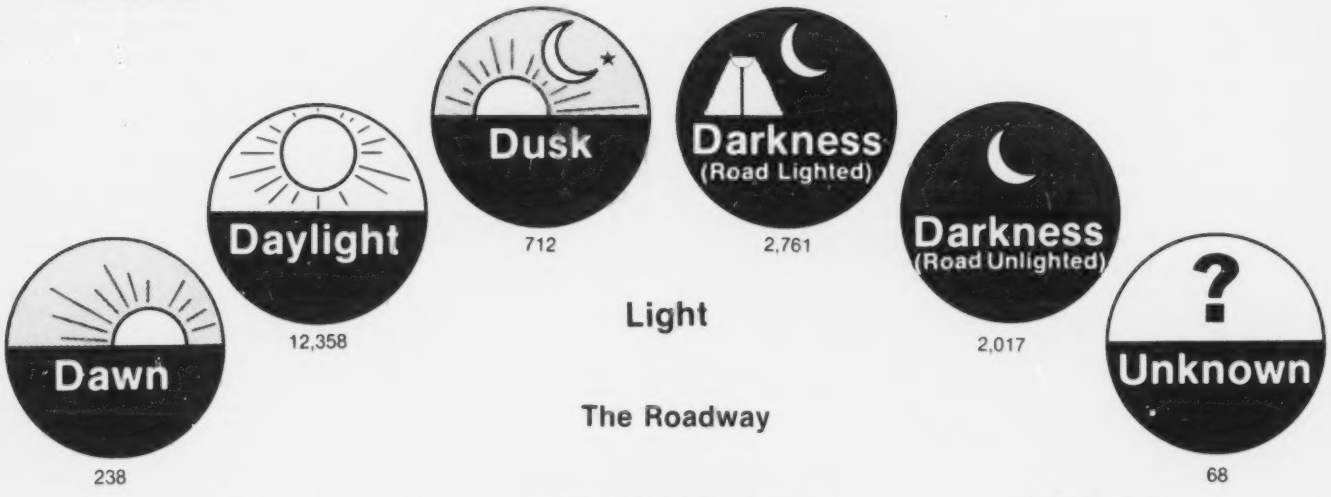
THE MACHINE

Vehicle Action	No. of Vehicles		
Going straight	1,761		48%
Turning left	302		8%
Turning right	138		
Making U-turn	8		
Passing	34		
Changing lanes	51		
Merging	29		
Parking	13	900	25%
Slowing-stopping	65		
Backing	175		
Stopped in traffic	159		
Parked	181		
Unattended moving vehicle	9		
Other	38		
Unknown/not stated	706		19%
Total no. of vehicles	3,669		

Vehicle Defects			
None	1,730		47%
Brakes	14		
Lights	5		
Steering	6		
Wipers	1	51	1%
Tires	9		
Power failure	1		
Trailer hitch	0		
Other	15		
Unknown/not stated	1,888		51%
Total no. of vehicles	3,669		

THE ENVIRONMENT

PICKUPS



Light

The Roadway

Contour

Straight, level	9,206		51%
Straight, up/downgrade	2,788		
Straight, hill crest	368		
Curve, level	768		
Curve, up/downgrade	574		
Curve, hill crest	59	7,969	44%
Intersection, level	2,547		
Intersection, up/downgrade	773		
Intersection, hill crest	92		
Unknown/not stated	979		
Total no. of accidents	18,154		5%

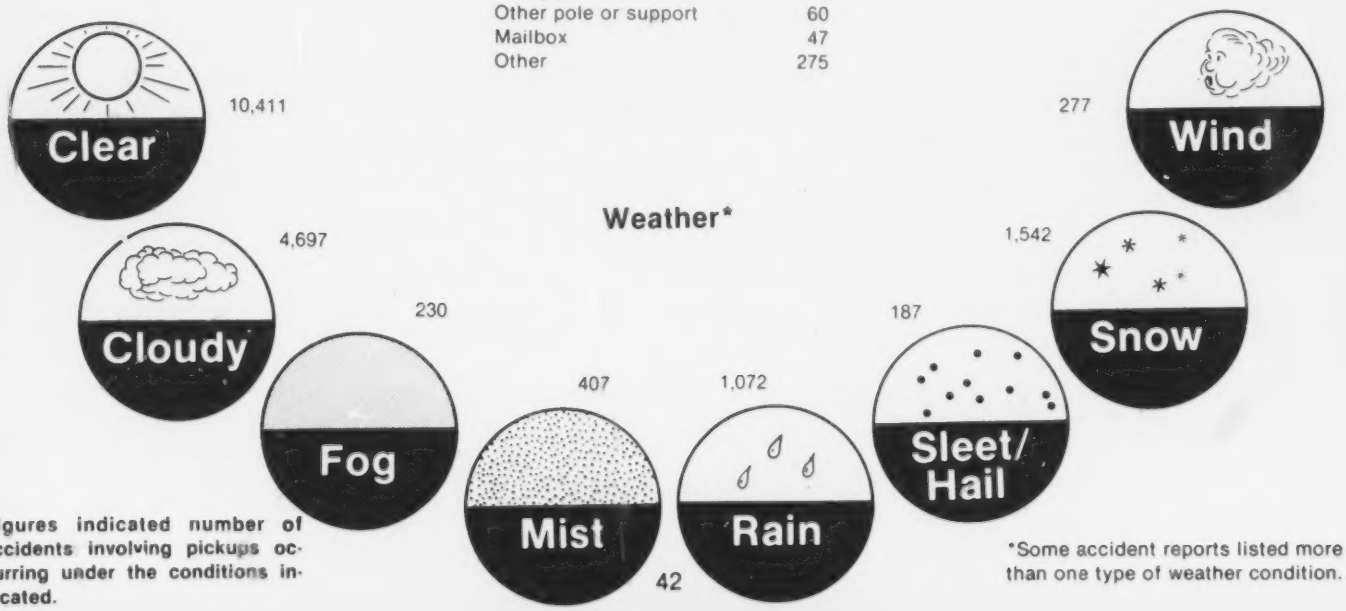
Fixed Object Struck

11% of all pickups involved in accidents struck fixed objects.

Bridge/overpass	123
Underpass/bridge support	6
Building	65
Culvert	55
Curb	53
Ditch	543
Island/raised median	14
Embankment/retaining wall	74
Fence	190
Guardrail	69
Light pole	165
Sign post	132
Tree or shrubbery	128
Utility pole	176
Other pole or support	60
Mailbox	47
Other	275

Traffic Controls

No controls	10,776		59%
Traffic signals	1,750		10%
Stop sign	1,670		9%
Yield sign	143		
No passing zone (marked)	107		
R.R. warning sign	34	315	2%
R.R. automatic signal	23		
R.R crossing gate	8		
Other/unknown/not stated	3,643		20%
Total no. of accidents	18,154		



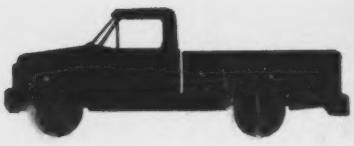
Figures indicated number of accidents involving pickups occurring under the conditions indicated.

*Some accident reports listed more than one type of weather condition.

ACCIDENTS INVOLVING

PICKUPS

In 1978 there were:
59 pickup occupants killed
18,154 accidents involving pickups
16,778 collision accidents involving pickups
1,376 non-collision accidents involving pickups



THE DRIVER*

Driver Action/ Contributing Circumstances**	Number of Drivers	% of Drivers Involved in Accidents
Ran traffic control	407	2.3
Improper passing	200	1.1
Left of center, not passing	293	1.7
Failure to yield	1,655	9.4
Wrong way, one-way road	11	0.1
Speed too fast	840	4.8
Drag racing	3	0.0
Improper turn	197	1.1
Improper lane change	218	1.2
Following too close	367	2.1
Improper or no signal	88	0.5
Disregarded R.R. signal	7	0.0
Disregarded warning signal	26	0.1
Reckless driving	100	0.6
Improper backing	366	2.1
Illegal or improper parking	68	0.4
Failure to have control	1,729	9.8
Lights not on	18	0.1
Physically unfit	91	0.5
Drinking	448	2.5
Inattentive/distracted	694	3.9
Confused/inexperienced	280	1.6
Vision obscured	428	2.4
Vehicle defect	159	0.9
Oversized vehicle	6	0.0
Other	623	3.5

Driver Condition			
Apparently normal	13,325		75%
Physical defect	35		
Fatigued	156		
Apparently asleep	167		
Ill	10	806	5%
Under medication	17		
Infirmities of age	36		
Other	385		
Unknown	3,550		20%

THE MACHINE

Vehicle Action	No. of Vehicles		
Going straight	9,786		50%
Turning left	1,719		9%
Turning right	698		
Making U-turn	35		
Passing	177		
Changing lanes	192		
Merging	101		
Parking	68	4,073	21%
Slowing-stopping	333		
Backing	568		
Stopped in traffic	667		
Parked	935		
Unattended moving vehicle	38		
Other	241		
Unknown/not stated	3,866		20%
Total no. of vehicles	19,444		

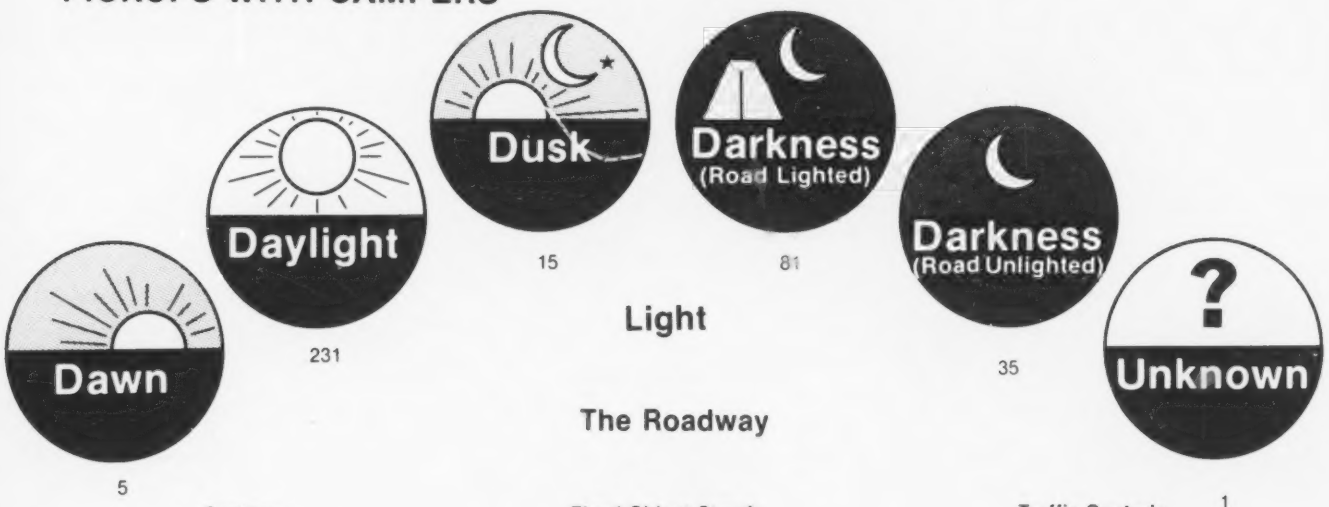
Vehicle Defects			
None	8,563		44%
Brakes	66		
Lights	37		
Steering	21		
Wipers	10	255	1%
Tires	45		
Power failure	19		
Trailer hitch	10		
Other	47		
Unknown/not stated	10,626		55%
Total no. of vehicles	19,444		

*Based on 17,681 pickup drivers for which information was available.
**0-2 actions/circumstances listed for each driver.

Iowa

THE ENVIRONMENT

PICKUPS WITH CAMPERS



Light

The Roadway

Contour

Straight, level	201		55%
Straight, up/downgrade	61		
Straight, hill crest	7		
Curve, level	19		
Curve, up/downgrade	4		
Curve, hill crest	0	153	42%
Intersection, level	47		
Intersection, up/downgrade	15		
Intersection, hill crest	0		
Unknown/not stated	14		
Total no. of accidents	368		4%

Fixed Object Struck

12% of all pickups with campers involved in accidents struck fixed objects.

Bridge/overpass	3
Underpass/bridge support	0
Building	2
Culvert	2
Curb	2
Ditch	17
Island/raised median	0
Embankment/retaining wall	0
Fence	1
Guardrail	0
Light pole	3
Sign post	3
Tree or shrubbery	4
Utility pole	1
Other pole or support	1
Mailbox	0
Other	4

Traffic Controls

No controls	222		60%
Traffic signals	47		13%
Stop sign	25		7%
Yield sign	1		
No passing zone (marked)	1		
R.R. warning sign	1	3	1%
R.R. automatic signal	0		
R.R. crossing gate	0		
Other/unknown/not stated	71		19%
Total no. of accidents	368		

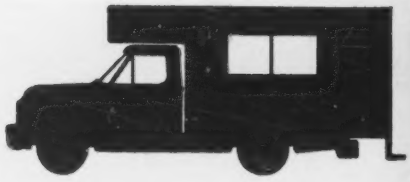
Weather*

Figures indicate number of accidents involving pickups with campers occurring under the conditions indicated.

*Some accident reports listed more than one type of weather condition.

ACCIDENTS INVOLVING

PICKUPS WITH CAMPERS



In 1978 there were:
0 occupants of pickups with campers killed
368 accidents involving pickups with campers
329 collision accidents involving pickups with campers
39 non-collision accidents involving pickups with campers

THE DRIVER*

Driver Action/ Contributing Circumstances**	Number of Drivers	% of Drivers Involved in Accidents
Ran traffic control	8	2.5
Improper passing	3	1.0
Left of center, not passing	4	1.3
Failure to yield	27	8.6
Wrong way, one-way road	0	0.0
Speed too fast	9	2.9
Drag racing	0	0.0
Improper turn	6	1.9
Improper lane change	4	1.3
Following too close	3	1.0
Improper or no signal	2	0.6
Disregarded R.R. signal	0	0.0
Disregarded warning signal	1	0.3
Reckless driving	4	1.3
Improper backing	6	1.9
Illegal or improper parking	2	0.6
Failure to have control	33	10.5
Lights not on	0	0.0
Physically unfit	3	1.0
Drinking	7	2.2
Inattentive/distracted	12	3.8
Confused/inexperienced	8	2.5
Vision obscured	8	2.5
Vehicle defect	1	0.3
Oversized vehicle	0	0.0
Other	14	4.4

Driver Condition			
Apparently normal	236		75%
Physical defect	0		
Fatigued	5		
Apparently asleep	1		
Ill	0	13	4%
Under medication	0		
Infirmities of age	1		
Other	6		
Unknown	66		21%

THE MACHINE

Vehicle Action	No. of Vehicles		
Going straight	177		48%
Turning left	41		11%
Turning right	11		
Making U-turn	0		
Passing	3		
Changing lanes	4		
Merging	3		
Parking	0	89	24%
Slowing-stopping	5		
Backing	14		
Stopped in traffic	15		
Parked	31		
Unattended moving vehicle	2		
Other	1		
Unknown/not stated	64		17%
Total no. of vehicles	371		

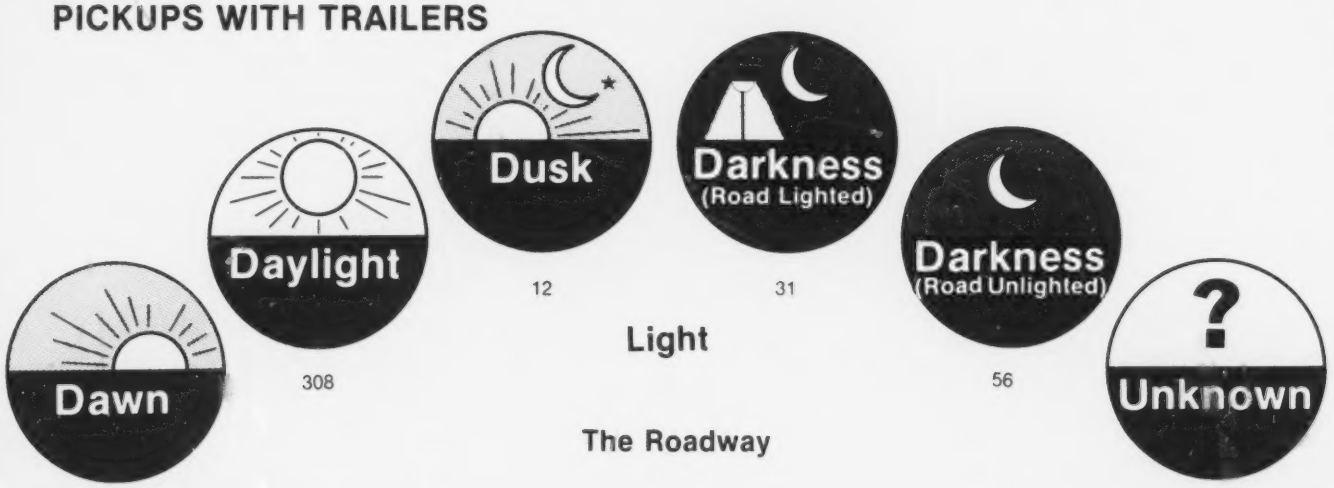
Vehicle Defects			
None	166		45%
Brakes	0		
Lights	0		
Steering	1		
Wipers	0	4	1%
Tires	1		
Power failure	0		
Trailer hitch	0		
Other	2		
Unknown/not stated	201		54%
Total no. of vehicles	371		

*Based on 315 drivers of pickups with campers for which information was available.
**0-2 actions/circumstances listed for each driver.

Iowa

THE ENVIRONMENT

PICKUPS WITH TRAILERS



12 31 308 56 6 0

Light

The Roadway

Contour

Straight, level	195	47%
Straight, up/downgrade	84	
Straight, hill crest	16	
Curve, level	18	
Curve, up/downgrade	14	
Curve, hill crest	0	204 49%
Intersection, level	48	
Intersection, up/downgrade	22	
Intersection, hill crest	2	
Unknown/not stated	14	
Total no. of accidents	413	3%

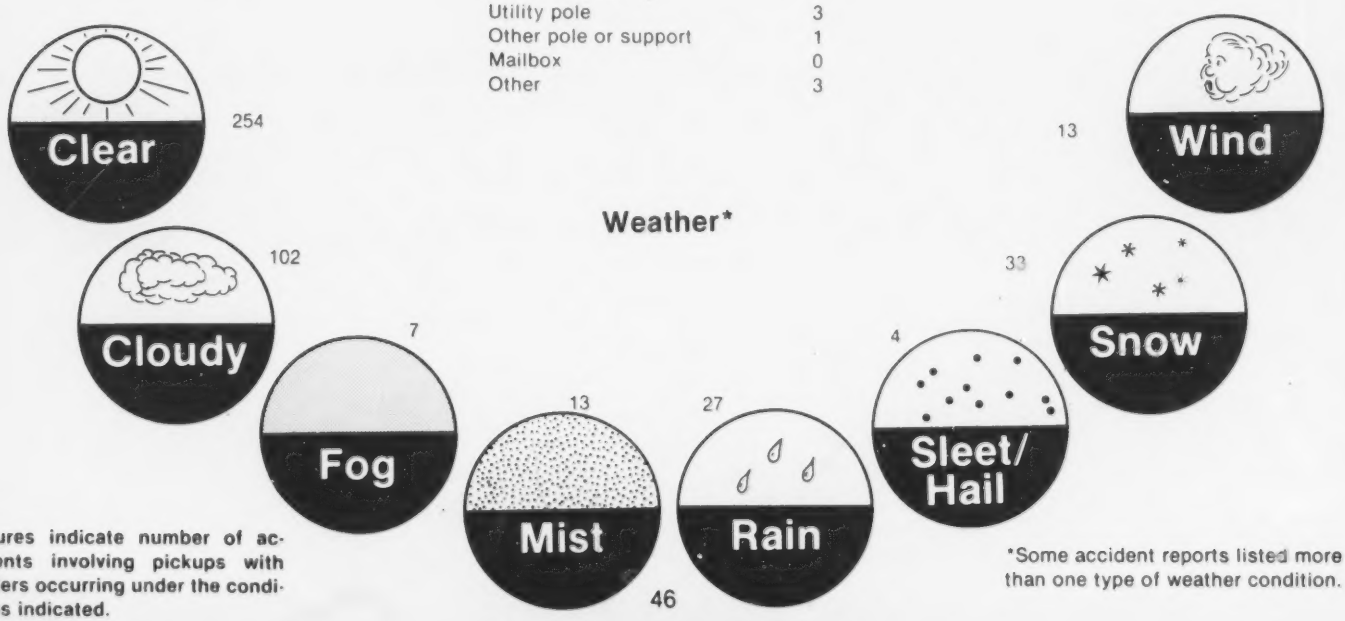
Fixed Object Struck

13% of all pickups with trailers involved in accidents struck fixed objects.

Bridge/overpass	7
Underpass/bridge support	1
Building	2
Culvert	1
Curb	1
Ditch	19
Island/raised median	1
Embankment/retaining wall	0
Fence	2
Guardrail	4
Light pole	1
Sign post	2
Tree or shrubbery	4
Utility pole	3
Other pole or support	1
Mailbox	0
Other	3

Traffic Controls

No controls	294	71%
Traffic signals	24	6%
Stop sign	25	6%
Yield sign	0	
No passing zone (marked)	8	
R.R. warning sign	1	10 2%
R.R. automatic signal	1	
R.R. crossing gate	0	
Other/unknown/not stated	60	15%
Total no. of accidents	413	



254 13 102 33 7 4 13 27

Weather*

Figures indicate number of accidents involving pickups with trailers occurring under the conditions indicated.

*Some accident reports listed more than one type of weather condition.

ACCIDENTS INVOLVING

PICKUPS WITH TRAILERS

In 1978 there were:
3 occupants of pickups with trailers killed
413 accidents involving pickups with trailers
348 collision accidents involving pickups with trailers
65 non-collision accidents involving pickups with trailers

THE DRIVER*

Driver Action/ Contributing Circumstances**	Number of Drivers	% of Drivers Involved in Accidents
Ran traffic control	7	1.8
Improper passing	8	2.0
Left of center, not passing	8	2.0
Failure to yield	29	7.4
Wrong way, one-way road	0	0.0
Speed too fast	22	5.6
Drag racing	0	0.0
Improper turn	12	3.1
Improper lane change	5	1.3
Following too close	7	1.8
Improper or no signal	4	1.0
Disregarded R.R. signal	0	0.0
Disregarded warning signal	1	0.3
Reckless driving	1	0.3
Improper backing	2	0.5
Illegal or improper parking	1	0.3
Failure to have control	36	9.2
Lights not on	0	0.0
Physically unfit	1	0.3
Drinking	4	1.0
Inattentive/distracted	15	3.8
Confused/inexperienced	10	2.5
Vision obscured	9	2.3
Vehicle defect	19	4.8
Oversized vehicle	1	0.3
Other	18	4.6

Driver Condition

Apparently normal	342		87%
Physical defect	0		
Fatigued	2		
Apparently asleep	3		
Ill	0	11	3%
Under medication	0		
Infirmities of age	1		
Other	5		
Unknown	40		10%

THE MACHINE

Vehicle Action	No. of Vehicles	
Going straight	269	65%
Turning left	41	10%
Turning right	17	
Making U-turn	1	
Passing	10	
Changing lanes	2	
Merging	4	
Parking	0	71 17%
Slowing-stopping	6	
Backing	8	
Stopped in traffic	8	
Parked	10	
Unattended moving vehicle	0	
Other	5	
Unknown/not stated	33	89%
Total no. of vehicles	414	

Vehicle Defects

None	219		53%
Brakes	4		
Lights	2		
Steering	0		
Wipers	1	33	8%
Tires	7		
Power failure	0		
Trailer hitch	14		
Other	5		
Unknown/not stated	162		39%
Total no. of vehicles	414		

*Based on 393 drivers of pickups with trailers for which information was available.
**0-2 actions/circumstances listed for each driver.

Iowa

THE ENVIRONMENT

STRAIGHT TRUCKS

33 | 2,391 | 77 | 154 | 125 | 3

Light

The Roadway

Contour

Straight, level	1,374		49%
Straight, up/downgrade	506		
Straight, hill crest	38		
Curve, level	125		
Curve, up/downgrade	91		
Curve, hill crest	5	1,311	47%
Intersection, level	379		
Intersection, up/downgrade	151		
Intersection, hill crest	16		
Unknown/not stated	98		
Total no. of accidents	2,783		4%

Fixed Object Struck

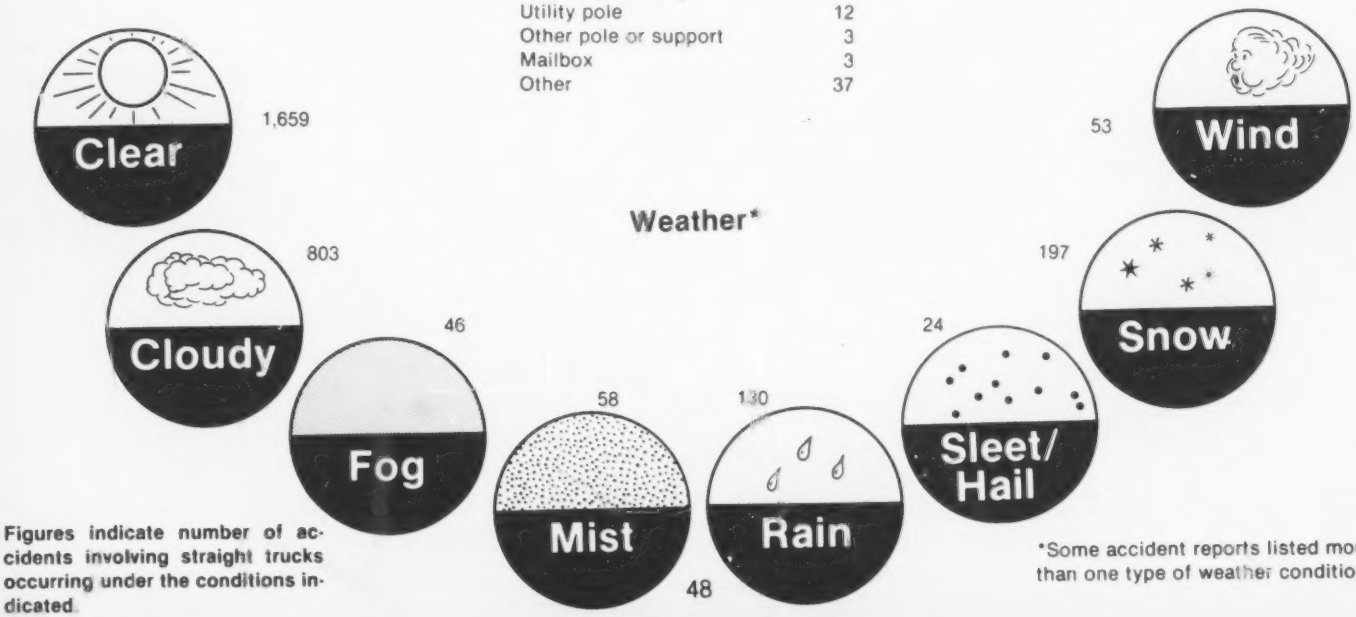
12% of all straight trucks involved in accidents struck fixed objects.

Bridge/overpass	32
Underpass/bridge support	6
Building	11
Culvert	4
Curb	6
Ditch	116
Island/raised median	1
Embankment/retaining wall	9
Fence	26
Guardrail	9
Light pole	23
Sign post	25
Tree or shrubbery	10
Utility pole	12
Other pole or support	3
Mailbox	3
Other	37

Traffic Controls

No controls	1,691		61%
Traffic signals	291		10%
Stop sign	234		8%
Yield sign	18		
No passing zone (marked)	30		
R.R. warning sign	6	58	2%
R.R. automatic signal	3		
R.R. crossing gate	1		
Other/unknown/not stated	509		18%
Total no. of accidents	2,783		

Weather*



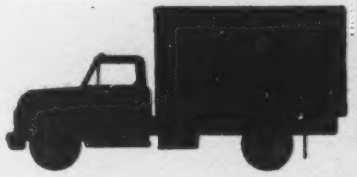
1,659 | 803 | 46 | 58 | 130 | 24 | 197 | 53

Figures indicate number of accidents involving straight trucks occurring under the conditions indicated.

*Some accident reports listed more than one type of weather condition.

ACCIDENTS INVOLVING

STRAIGHT TRUCKS



In 1978 there were:
7 straight truck occupants killed
2,783 accidents involving straight trucks
2,416 collision accidents involving straight trucks
367 non-collision accidents involving straight trucks

THE DRIVER*

Driver Action/ Contributing Circumstances**	Number of Drivers	% of Drivers Involved in Accidents
Ran traffic control	61	2.3
Improper passing	55	2.0
Left of center, not passing	32	1.2
Failure to yield	208	7.7
Wrong way, one-way road	2	0.1
Speed too fast	125	4.6
Drag racing	1	0.0
Improper turn	60	2.2
Improper lane change	43	1.6
Following too close	64	2.4
Improper or no signal	25	0.9
Disregarded R.R. signal	2	0.1
Disregarded warning signal	5	0.2
Reckless driving	2	0.1
Improper backing	102	3.8
Illegal or improper parking	26	1.0
Failure to have control	235	8.7
Lights not on	4	0.1
Physically unfit	5	0.2
Drinking	19	0.7
Inattentive/distracted	117	4.4
Confused/inexperienced	39	1.5
Vision obscured	62	2.3
Vehicle defect	109	4.1
Oversized vehicle	16	0.6
Other	134	5.0

Driver Condition

Apparently normal	2,265		84%
Physical defect	3		
Fatigued	11		
Apparently asleep	17		
Ill	0	55	2%
Under medication	1		
Infirmities of age	4		
Other	19		
Unknown	369		14%

*Based on 2,689 straight truck drivers for which information was available.
**0-2 actions/circumstances listed for each driver.

THE MACHINE

Vehicle Action	No. of Vehicles		
Going straight	1,437		50%
Turning left	301		11%
Turning right	166		
Making U-turn	2		
Passing	37		
Changing lanes	47		
Merging	14		
Parking	6	725	25%
Slowing-stopping	65		
Backing	169		
Stopped in traffic	76		
Parked	79		
Unattended moving vehicle	14		
Other	50		
Unknown/not stated	394		14%
Total no. of vehicles	2,857		

Vehicle Defects

None	1,397		49%
Brakes	82		
Lights	22		
Steering	6		
Wipers	0	160	6%
Tires	25		
Power failure	3		
Trailer hitch	1		
Other	21		
Unknown/not stated	1,300		46%
Total no. of vehicles	2,857		

Iowa

THE ENVIRONMENT

TOW TRUCKS

Light

The Roadway

Contour

Straight, level	89		52%
Straight, up/downgrade	29		
Straight, hill crest	1		
Curve, level	6		
Curve, up/downgrade	6		
Curve, hill crest	1	71	41%
Intersection, level	16		
Intersection, up/downgrade	11		
Intersection, hill crest	1		
Unknown/not stated	12		
Total no. of accidents	172		7%

Fixed Object Struck

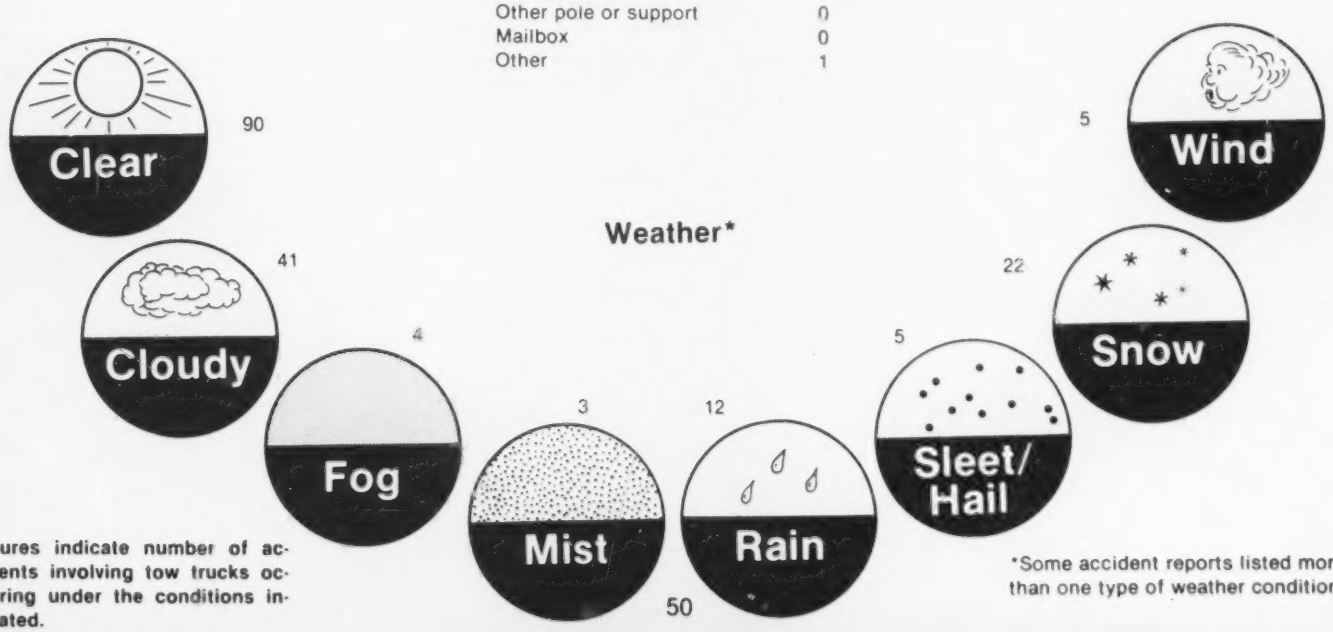
8% of all tow trucks involved in accidents struck fixed objects.

Bridge/overpass	0
Underpass/bridge support	0
Building	1
Culvert	0
Curb	1
Ditch	2
Island/raised median	0
Embankment/retaining wall	0
Fence	3
Guardrail	0
Light pole	2
Sign post	2
Tree or shrubbery	0
Utility pole	1
Other pole or support	0
Mailbox	0
Other	1

Traffic Controls

No controls	103		60%
Traffic signals	23		13%
Stop sign	10		6%
Yield sign	0		
No passing zone (marked)	0		
R.R. warning sign	0	0	
R.R. automatic signal	0		
R.R. crossing gate	0		
Other/unknown/not stated	36		21%
Total no. of accidents	172		

Weather*

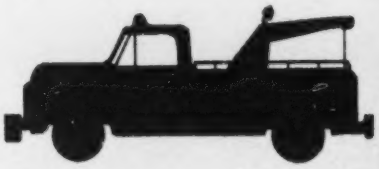


Figures indicate number of accidents involving tow trucks occurring under the conditions indicated.

*Some accident reports listed more than one type of weather condition.

ACCIDENTS INVOLVING

TOW TRUCKS



In 1978 there were:
0 tow truck occupants killed
172 accidents involving tow trucks
161 collision accidents involving tow trucks
11 non-collision accidents involving tow trucks

THE DRIVER*

Driver Action/ Contributing Circumstances**	Number of Drivers	% of Drivers Involved in Accidents
Ran traffic control	5	3.2
Improper passing	3	1.9
Left of center, not passing	3	1.9
Failure to yield	10	6.4
Wrong way, one-way road	0	0.0
Speed too fast	8	5.1
Drag racing	0	0.0
Improper turn	2	1.3
Improper lane change	0	0.0
Following too close	5	3.2
Improper or no signal	2	1.3
Disregarded R.R. signal	0	0.0
Disregarded warning signal	0	0.0
Reckless driving	0	0.0
Improper backing	4	2.5
Illegal or improper parking	2	1.3
Failure to have control	7	4.5
Lights not on	0	0.0
Physically unfit	0	0.0
Drinking	4	2.5
Inattentive/distracted	1	0.6
Confused/inexperienced	1	0.6
Vision obscured	4	2.5
Vehicle defect	10	6.4
Oversized vehicle	1	0.6
Other	13	8.3

Driver Condition			
Apparently normal	128		82%
Physical defect	1		
Fatigued	0		
Apparently asleep	0		
Ill	0	4	3%
Under medication	0		
Infirmities of age	0		
Other	3		
Unknown	25		16%

THE MACHINE

Vehicle Action	No. of Vehicles		
Going straight	92		53%
Turning left	19		11%
Turning right	4		
Making U-turn	0		
Passing	2		
Changing lanes	1		
Merging	1		
Parking	0	38	22%
Slowing-stopping	2		
Backing	5		
Stopped in traffic	7		
Parked	11		
Unattended moving vehicle	0		
Other	5		
Unknown/not stated	24		14%
Total no. of vehicles	173		

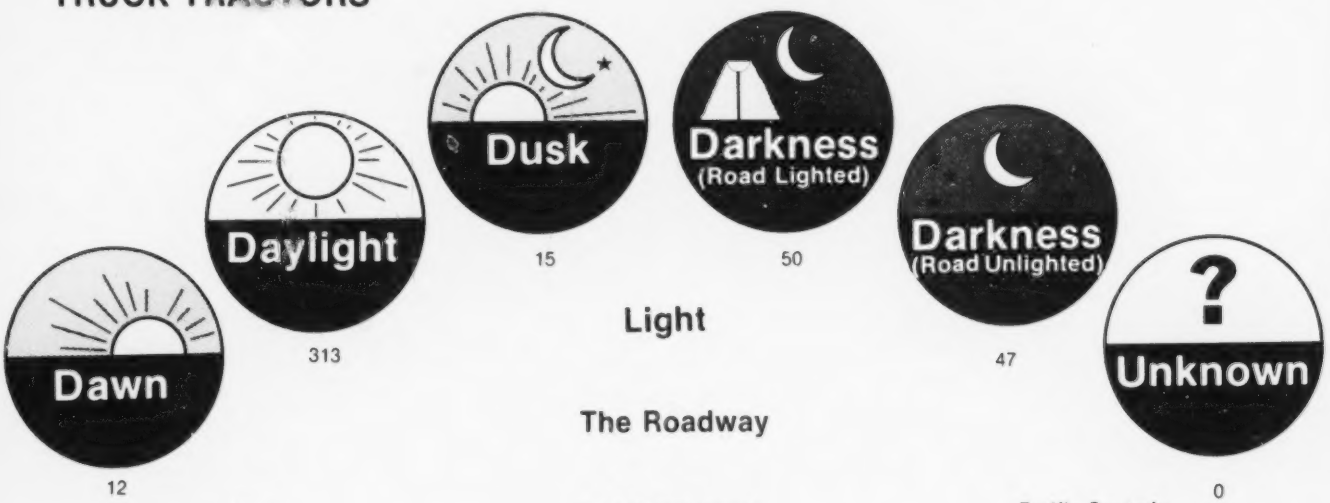
Vehicle Defects			
None	86		50%
Brakes	5		
Lights	0		
Steering	0		
Wipers	0	8	5%
Tires	0		
Power failure	0		
Trailer hitch	0		
Other	3		
Unknown/not stated	79		46%
Total no. of vehicles	173		

*Based on 157 tow truck drivers for which information was available.
**0-2 actions/circumstances listed for each driver.

Iowa

THE ENVIRONMENT

TRUCK TRACTORS



15 50 313 47 12 0

Light

The Roadway

Contour

Straight, level	217		50%
Straight, up/downgrade	81		
Straight, hill crest	2		
Curve, level	24		
Curve, up/downgrade	18		
Curve, hill crest	3	205	47%
Intersection, level	57		
Intersection, up/downgrade	20		
Intersection, hill crest	0		
Unknown/not stated	15		
Total no. of accidents	437		3%

Fixed Object Struck

16% of all truck tractors involved in accidents struck fixed objects.

Bridge/overpass	5
Underpass/bridge support	3
Building	3
Culvert	3
Curb	0
Ditch	12
Island/raised median	1
Embankment/retaining wall	2
Fence	6
Guardrail	5
Light pole	9
Sign post	4
Tree or shrubbery	2
Utility pole	6
Other pole or support	4
Mailbox	0
Other	6

Traffic Controls

No controls	271		62%
Traffic signals	60		14%
Stop sign	27		6%
Yield sign	2		
No passing zone (marked)	2		
R.R. warning sign	1	9	2%
R.R. automatic signal	4		
R.R. crossing gate	0		
Other/unknown/not stated	70		16%
Total no. of accidents	437		

Weather*

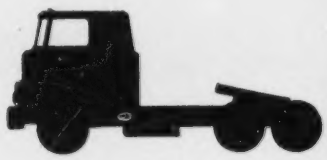
261 11 104 36 8 10 13 36

Figures indicate number of accidents involving truck tractors occurring under the conditions indicated.

*Some accident reports listed more than one type of weather condition.

ACCIDENTS INVOLVING

TRUCK TRACTORS



In 1978 there were:

2 truck tractor occupants killed
437 accidents involving truck tractors
376 collision accidents involving truck tractors
61 non-collision accidents involving truck tractors

THE DRIVER*

Driver Action/ Contributing Circumstances**	Number of Drivers	% of Drivers Involved in Accidents
Ran traffic control	8	1.9
Improper passing	12	2.9
Left of center, not passing	7	1.7
Failure to yield	19	4.6
Wrong way, one-way road	0	0.0
Speed too fast	21	5.1
Drag racing	0	0.0
Improper turn	13	3.1
Improper lane change	12	2.9
Following too close	15	3.6
Improper or no signal	2	0.5
Disregarded R.R. signal	2	0.5
Disregarded warning signal	2	0.5
Reckless driving	1	0.2
Improper backing	7	1.7
Illegal or improper parking	2	0.5
Failure to have control	37	8.9
Lights not on	0	0.0
Physically unfit	1	0.2
Drinking	0	0.0
Inattentive/distracted	16	3.9
Confused/inexperienced	5	1.2
Vision obscured	4	1.0
Vehicle defect	16	3.9
Oversized vehicle	4	1.0
Other	18	4.3

Driver Condition			
Apparently normal	343		83%
Physical defect	2		
Fatigued	2		
Apparently asleep	5		
Ill	0	13	3%
Under medication	0		
Infirmities of age	1		
Other	3		
Unknown	58		14%

THE MACHINE

Vehicle Action	No. of Vehicles		
Going straight	243		54%
Turning left	27		6%
Turning right	37		
Making U-turn	0		
Passing	12		
Changing lanes	7		
Merging	4		
Parking	0	105	23%
Slowing-stopping	7		
Backing	10		
Stopped in traffic	5		
Parked	16		
Unattended moving vehicle	3		
Other	4		
Unknown/not stated	72		16%
Total no. of vehicles	447		

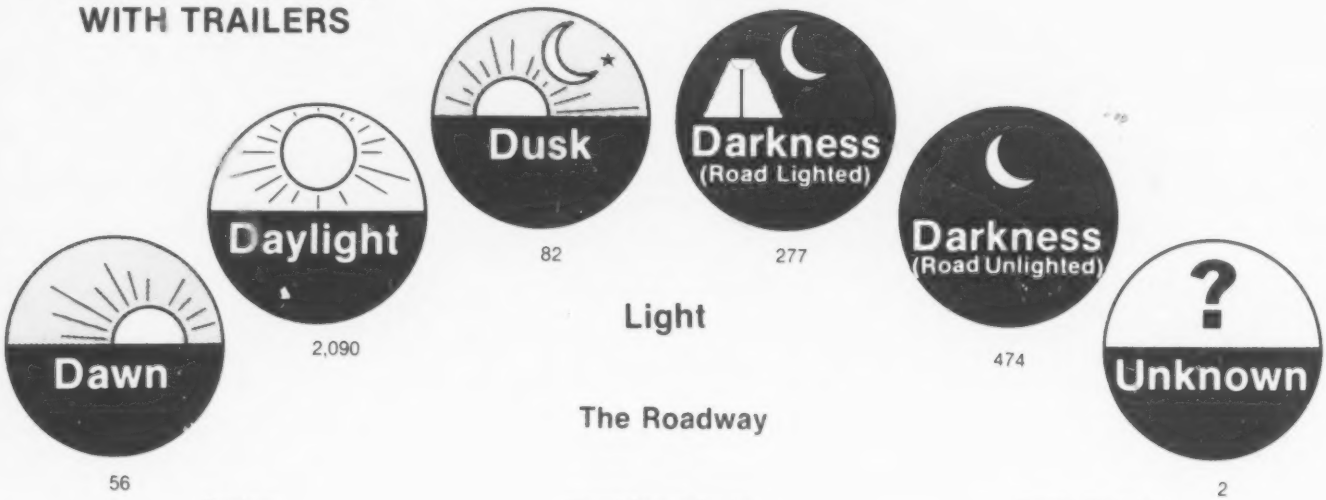
Vehicle Defects			
None	211		47%
Brakes	10		
Lights	1		
Steering	3		
Wipers	0	25	6%
Tires	5		
Power failure	1		
Trailer hitch	2		
Other	3		
Unknown/not stated	211		47%
Total no. of vehicles	447		

*Based on 414 truck tractor drivers for which information was available.
**0-2 actions/circumstances listed for each driver.

Iowa

THE ENVIRONMENT

TRUCK TRACTORS WITH TRAILERS



Light

The Roadway

Contour

Straight, level	1,385		46%
Straight, up/downgrade	578		
Straight, hill crest	25		
Curve, level	152		
Curve, up/downgrade	139		
Curve, hill crest	8	1,446	49%
Intersection, level	420		
Intersection, up/downgrade	117		
Intersection, hill crest	7		
Unknown/not stated	150		
Total no. of accidents	2,981		5%

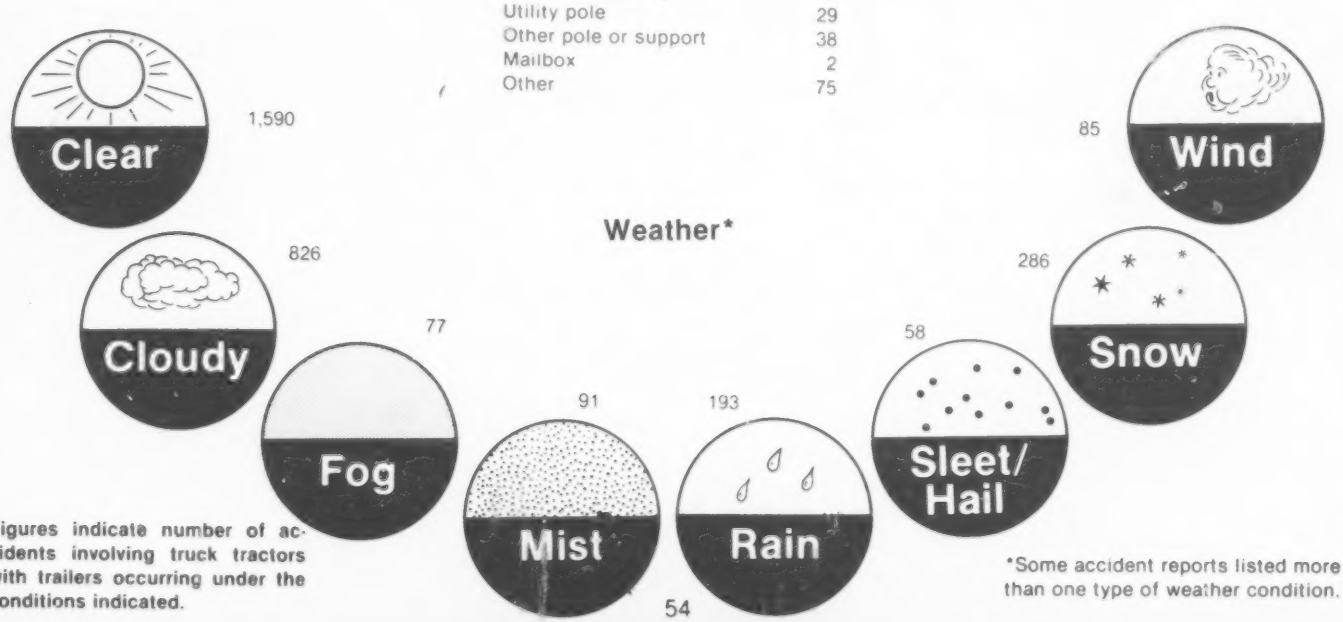
Fixed Object Struck

18% of all truck tractors with trailers involved in accidents struck fixed objects.

Bridge/overpass	61
Underpass/bridge support	11
Building	7
Culvert	7
Curb	6
Ditch	113
Island/raised median	1
Embankment/retaining wall	12
Fence	38
Guardrail	42
Light pole	49
Sign post	57
Tree or shrubbery	5
Utility pole	29
Other pole or support	38
Mailbox	2
Other	75

Traffic Controls

No controls	1,761		59%
Traffic signals	348		12%
Stop sign	168		6%
Yield sign	15		
No passing zone (marked)	46		
R.R. warning sign	8	82	3%
R.R. automatic signal	10		
R.R. crossing gate	3		
Other/unknown/not stated	622		21%
Total no. of accidents	2,981		



Figures indicate number of accidents involving truck tractors with trailers occurring under the conditions indicated.

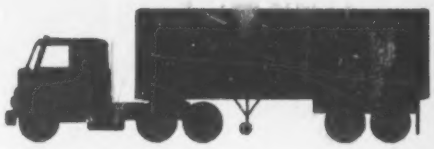
*Some accident reports listed more than one type of weather condition.

ACCIDENTS INVOLVING

TRUCK TRACTORS WITH TRAILERS

In 1978 there were:

21 occupants of truck tractors with trailers killed
2,981 accidents involving truck tractors with trailers
2,479 collision accidents involving truck tractors with trailers
502 non-collision accidents involving truck tractors with trailers



THE DRIVER*

Driver Action/ Contributing Circumstances**	Number of Drivers		% of Drivers Involved in Accidents
Ran traffic control	48		1.6
Improper passing	74		2.5
Left of center, not passing	34		1.2
Failure to yield	82		2.8
Wrong way, one-way road	2		0.1
Speed too fast	146		4.9
Drag racing	0		0.0
Improper turn	118		4.0
Improper lane change	67		2.3
Following too close	76		2.6
Improper or no signal	9		0.3
Disregarded R.R. signal	5		0.2
Disregarded warning signal	17		0.6
Reckless driving	1		0.0
Improper backing	59		2.0
Illegal or improper parking	15		0.5
Failure to have control	311		10.5
Lights not on	2		0.1
Physically unfit	20		0.7
Drinking	7		0.2
Inattentive/distracted	104		3.5
Confused/inexperienced	44		1.5
Vision obscured	65		2.2
Vehicle defect	97		3.3
Oversized vehicle	33		1.1
Other	166		5.6

Driver Condition			
Apparently normal	2,410		82%
Physical defect	1		
Fatigued	21		
Apparently asleep	38		
Ill	3	74	3%
Under medication	0		
Infirmities of age	1		
Other	10		
Unknown	466		16%

THE MACHINE

Vehicle Action	No. of Vehicles		
Going straight	1,634		53%
Turning left	203		7%
Turning right	298		
Making U-turn	2		
Passing	98		
Changing lanes	67		
Merging	9		
Parking	4	789	25%
Slowing-stopping	66		
Backing	83		
Stopped in traffic	62		
Parked	43		
Unattended moving vehicle	8		
Other	49		
Unknown/not stated	483		16%
Total no. of vehicles	3,109		

Vehicle Defects			
None	1,595		51%
Brakes	46		
Lights	6		
Steering	10		
Wipers	0	119	4%
Tires	27		
Power failure	10		
Trailer hitch	2		
Other	16		
Unknown/not stated	1,395		45%
Total no. of vehicles	3,109		

*Based on 2,950 drivers of truck tractors with trailers for which information was available.

**0-2 actions/circumstances listed for each driver.

MAIL REPORTS TO:
Drivers License Division
Dept. of Public Safety
Lucas State Office Bldg.
Des Moines, Iowa 50319

REPORT NUMBER

STATE OF IOWA

INVESTIGATING OFFICERS REPORT OF MOTOR VEHICLE ACCIDENT

PLEASE TYPE OR PRINT

ACCIDENT NUMBER

R | County | City | U

SUM
Total Number Persons Killed | Total Number Persons Injured | Total Number Vehicles Involved | Total Amount of Property Damage $

DATE
Date of Accident: Month | Day | Year
Day of Week Code: Sun Mon Tue Wed Thu Fri Sat (1 2 3 4 5 6 7)
Time ____ : ____ AM PM

Route | Road Class | Inter-Class

VICINITY
County
Accident occurred within Corporate limits of (City)
If accident occurred outside of City Limits show general vicinity ____ Miles N NE E SE S SW W NW of Nearest City

Intersection Identifier

SPECIFIC LOCATION
On Road, Street or Highway — ROAD CLASS CODE
At Intersection with — ROAD CLASS CODE

ROAD CLASS CODES
1=Interstate/Freeway
2=US or State Highway
3=County Road
4=City Street
5=Other
0=Unknown

Reference Node

NOTE: Unless accident occurred at an intersection which is completely described above, use the space below to give the exact location from a Milepost or definable intersection, bridge or railroad crossing, using two distances and directions if necessary.

Feet Miles N NE E SE S SW W NW or ____ and Feet Miles N NE E SE S SW W NW of

Distance Indicator

Direction Node

Milepost Number OR Definable Intersection, bridge or railroad crossing

UNIT NUMBER 1

Driver 1

DRIVERS NAME - LAST, FIRST, MIDDLE | DATE OF BIRTH: Month | Day | Year | SEX: Male Female

STREET OR RFD | CITY & STATE | ZIP CODE

DRIVERS LICENSE NUMBER | STATE | LICENSE TYPE CODE | 1=Operator 2=Chauffeur 3=TDP (Operator) 4=TDP (Chauffeur) 5=TDP (Probationary) 6=Inst. Permit 7=School 8=Other 9=None

LICENSE RESTRICTIONS | RESTRICTION COMPLIED WITH | 1=Yes 2=No 3=Unknown | CHEMICAL TEST GIVEN? | 1=Yes 2=No 3=Refused | TYPE TEST GIVEN | 1=Blood 2=Breath 3=Urine | TEST RESULTS %

Vehicle 1

OWNERS NAME - LAST, FIRST, MIDDLE | STREET OR RFD

CITY & STATE | ZIP | LICENSE PLATE NUMBER | STATE | YEAR | VALIDATION NUMBER | YEAR

VEHICLE MAKE | YEAR | BODY TYPE | COLOR | TOTAL OCCUPANTS THIS UNIT

VEHICLE TYPE CODE
01=Passenger Car
02=Car & Trailer
03=Panel Truck
04=Pickup Truck
05=Pickup & Trailer
06=Pickup Camper
07=Straight Truck
08=Truck Tractor
09=Truck Tractor/Semi
10=Double Bottom Truck
11=Tow Truck/Wrecker
12=Motor Home
13=Bus
14=School Bus
15=Farm Veh/Equip
16=Motorcycle
17=Bicycle, Etc.
18=Recreation Veh.
19=Maint/Const Veh.
20=Train
21=Other (Describe)
00=Unknown

SPECIAL USE CODE: 0=Unknown 1=None 2=Police 3=Fire 4=Taxi 5=Gov't. 6=Ambulance 7=Towing 8=Driver Trng. 9=Other (Describe)

DAMAGE SEVERITY CODE: 0=Unknown 1=None 2=Light 3=Moderate 4=Severe | Approx Cost to Repair or Replace $ | SPEED LIMIT

01 Front 02 03 04 05 06 07 08 09 10 Under-Carriage 00 Unknown

INDICATE POINT OF INITIAL IMPACT (Using one of the Codes from diagram at left)

INDICATE DAMAGED AREA OF VEHICLE (Using up to four codes from diagram at left - If more than four areas are damaged, show the four most severely damaged)

UNIT NUMBER 2

Driver 2

DRIVERS NAME - LAST, FIRST, MIDDLE | DATE OF BIRTH: Month | Day | Year | SEX: Male Female

STREET OR RFD | CITY & STATE | ZIP CODE

DRIVERS LICENSE NUMBER | STATE | LICENSE TYPE CODE | 1=Operator 2=Chauffeur 3=TDP (Operator) 4=TDP (Chauffeur) 5=TDP (Probationary) 6=Inst. Permit 7=School 8=Other 9=None

LICENSE RESTRICTIONS | RESTRICTION COMPLIED WITH | 1=Yes 2=No 3=Unknown | CHEMICAL TEST GIVEN? | 1=Yes 2=No 3=Refused | TYPE TEST GIVEN | 1=Blood 2=Breath 3=Urine | TEST RESULTS %

Vehicle 2

OWNERS NAME - LAST, FIRST, MIDDLE | STREET OR RFD

CITY & STATE | ZIP | LICENSE PLATE NUMBER | STATE | YEAR | VALIDATION NUMBER | YEAR

VEHICLE MAKE | YEAR | BODY TYPE | COLOR | TOTAL OCCUPANTS THIS UNIT

VEHICLE TYPE CODE
01=Passenger Car
02=Car & Trailer
03=Panel Truck
04=Pickup Truck
05=Pickup & Trailer
06=Pickup Camper
07=Straight Truck
08=Truck Tractor
09=Truck Tractor/Semi
10=Double Bottom Truck
11=Tow Truck/Wrecker
12=Motor Home
13=Bus
14=School Bus
15=Farm Veh/Equip
16=Motorcycle
17=Bicycle, Etc.
18=Recreation Veh.
19=Maint/Const Veh.
20=Train
21=Other (Describe)
00=Unknown

SPECIAL USE CODE: 0=Unknown 1=None 2=Police 3=Fire 4=Taxi 5=Gov't. 6=Ambulance 7=Towing 8=Driver Trng. 9=Other (Describe)

DAMAGE SEVERITY CODE: 0=Unknown 1=None 2=Light 3=Moderate 4=Severe | Approx Cost to Repair or Replace $ | SPEED LIMIT

01 Front 02 03 04 05 06 07 08 09 10 Under-Carriage 00 Unknown

INDICATE POINT OF INITIAL IMPACT (Using one of the Codes from diagram at left)

INDICATE DAMAGED AREA OF VEHICLE (Using up to four codes from diagram at left - If more than four areas are damaged, show the four most severely damaged)

INJURED PERSONS

SEVERITY CODE	INJURED AREA CODE	POSITION OF INJURED PERSON
1=Fatal 2=Major (Incapacitating) 3=Minor (Bruises - Abrasions) 4=Possible (Complaint of Pain) 0=Unknown	1=Upper Torso 2=Lower Torso 3=Internal 4=Head 5=Arms 6=Legs 7=Multiple 0=Unknown	1 2 3 / 4 5 6 / 7 8 9 0 = Unknown M = On Motorcycle U = Bus Pass. B = Bicycle P = Pedestrian T = Other

Name - Last, First, Middle			Veh/Ped. No.	Age	Male	Female
Street or RFD	City and State	Zip Code	Severity Code	Injured Area Code	Position of Injured Person	
Injured Taken to						
Name - Last, First, Middle			Veh/Ped. No.	Age	Male	Female
Street or RFD	City and State	Zip Code	Severity Code	Injured Area Code	Position of Injured Person	
Injured Taken to						
Name - Last, First, Middle			Veh/Ped. No.	Age	Male	Female
Street or RFD	City and State	Zip Code	Severity Code	Injured Area Code	Position of Injured Person	
Injured Taken to						
Name - Last, First, Middle			Veh/Ped. No.	Age	Male	Female
Street or RFD	City and State	Zip Code	Severity Code	Injured Area Code	Position of Injured Person	
Injured Taken to						

SAFETY EQUIPMENT

Seat Position		Front Seat 1	2	3	Back Seat 4	5	6	Third Seat - Station Wagon 7	8	9	Other 0
Unit 1	Belts Installed										
	Belts Used										
	Ejected										
Unit 2	Belts Installed										
	Belts Used										
	Ejected										

SAFETY EQUIPMENT and MOTORCYCLE CODES
1 = Yes
2 = No
0 = Unknown

Other (Describe)

MOTORCYCLE DRIVER				MOTORCYCLE PASSENGER			
Helmet Worn	Eye Protection Used	Special Protective Clothing Worn		Helmet Worn	Eye Protection Used	Special Protective Clothing Worn	

PROP DAM

If property other than Vehicles Damaged Explain	Object Damaged	Estimage of Damage $	Was Owner or Tenant Notified?	1=Yes 2=No 3=Unknown
Name of Owner				
Street or RFD	City & State		Zip Code	

PEDESTRIAN NO. I

Name - Last, first, Middle		Date of Birth	Month	Day	Year	Sex	Male	Female
Street or RFD	City and State						Zip Code	

APPARENT PEDESTRIAN SOBRIETY
1=Had Not Been Drinking
2=Drinking (Not Impaired)
3=Drinking (Impaired)
4=Drugs
0=Unknown
Test Results _____ %

COLOR OF CLOTHING
1=Generally Light
2=Generally Dark
0=Unknown

PEDESTRIAN ACTION

01=Crossing, Against Signal
02=Crossing, Not At Crosswalk
03=Walking, Improper Position on Roadway
04=Soliciting Rides on Road
05=Walking With Traffic
06=Walking Against Traffic
07=Crossing, With Signal
08=Crossing, In Crosswalk
09=Onto Road Between Parked Cars
10=Ran Onto Roadway
11=Directing Traffic
12=Playing
13=Lying or Sitting on Roadway
14=Pushing, Working on Vehicle
15=Getting On or Off Vehicle
16=Maint/Const Project
17=Walking, Off Roadway
00=Unknown

Check if pedestrian is also listed as a driver on this report

Accident Characteristics

LOCATION OF ACCIDENT

1 = On Roadway
2 = Off Roadway
0 = Unknown

[ ] (Where did first damage or injury event occur?)

TYPE OF ACCIDENT

Non-Collision
01 = Overturned
02 = Jackknifed
03 = Carbon Monoxide
04 = Fire/Explosion
05 = Immersion
06 = Other

Collision of Motor Vehicle with:
10 = Pedestrian
11 = Vehicle in Traffic
12 = Motorcycle in Traffic
13 = Vehicle in Other Roadway
14 = Parked Vehicle
15 = Train
16 = Pedalcycle
17 = Animal
18 = Fixed Object
19 = Other Object

[ ]

VEHICLE ACTION

01 = Going Straight
02 = Turning Left
03 = Turning Right
04 = Making U-Turn
05 = Passing
06 = Changing Lanes
07 = Merging
08 = Parking
09 = Slowing - Stopping
10 = Backing
11 = Stopped for Stop Sign/Signal
12 = Stopped in Traffic Lane
13 = Stalled in Traffic Lane
14 = Properly Parked
15 = Improperly Parked
16 = Other (Explain in Narrative)
17 = Unattended moving Vehicle
00 = Unknown

Veh 1 [ ] Veh 2 [ ] Veh 3 [ ] Veh 4 [ ]

FIXED OBJECT STRUCK

00 = Unknown
01 = None
02 = Bridge or Overpass
03 = Underpass or Bridge Support
04 = Building
05 = Culvert
06 = Curb
07 = Ditch
08 = Island or Raised Median
09 = Embankment or Retaining Wall
10 = Fence
11 = Guardrail
12 = Light Pole
13 = Sign Post
14 = Tree or Shrubbery
15 = Utility Pole
16 = Other Pole or Support
17 = Mailbox
18 = Other

Veh 1 [ ] Veh 2 [ ] Veh 3 [ ] Veh 4 [ ]

LOCATION OF FIXED OBJECT STRUCK IF APPLICABLE

0 = Unknown 3 = In Median
1 = On Roadway 4 = Off Roadway
2 = On Shoulder

N E S W
_____ Feet [ ] [ ] [ ] [ ]
From edge of Traveled Portion of Roadway

Vehicle No. _____ [ ]

LOCATION OF FIXED OBJECT STRUCK IF APPLICABLE

0 = Unknown 3 = In Median
1 = On Roadway 4 = Off Roadway
2 = On Shoulder

N E S W
_____ Feet [ ] [ ] [ ] [ ]
From edge of Traveled Portion of Roadway

Vehicle No. _____ [ ]

Roadway Characteristics

ROADWAY GEOMETRICS

1 = Straight, Level
2 = Straight, Up/Downgrade
3 = Straight, Hillcrest
4 = Curve, Level
5 = Curve, Up/Downgrade
6 = Curve, Hillcrest
7 = Intersection, Level
8 = Intersection, Up/Downgrade
9 = Intersection, Hillcrest
0 = Unknown

[ ]

CHARACTER OF ROADWAY

Not at Intersection
01 = No special Feature
02 = Bridge/Overpass/Underpass
03 = Railroad Crossing
04 = Business Drive
05 = Farm/Residential Drive
06 = Other (Non-Intersection)

Intersection
11 = Within Intersection
12 = Not Within Intersection but Intersection Related
13 = Alley Intersection
14 = Other (Intersection)

Interchange
21 = Intersection of Ramp and Minor Road
22 = Ramp
23 = On Major Road, Between Ramps
24 = On Minor Road, Between Ramps
25 = Entrance Ramp at Major Road
26 = Major Road at Exit Ramp
27 = Bridge/Overpass/Underpass
28 = Not Within Interchange but Interchange Related
29 = Other (Interchange)
00 = Unknown

[ ]

TRAFFIC CONTROLS

01 = No Controls Present
02 = Traffic Signals
03 = Stop Sign
04 = Yield Sign
05 = Warning Sign
06 = School Signals
07 = No Passing Zone (Marked)
08 = School Stop Sign
09 = Stop Arm on School Bus
10 = Railroad Warning Sign
11 = Railroad Automatic Signal
12 = Railroad Crossing Gate
13 = Police Officer
14 = Other Traffic Director
15 = Other Control
00 = Unknown

Veh 1 [ ] Veh 2 [ ] Veh 3 [ ] Veh 4 [ ]

Were traffic signs in place or signals functioning?

1 = Yes 3 = Not Applicable
2 = No 0 = Unknown

Veh 1 [ ] Veh 2 [ ] Veh 3 [ ] Veh 4 [ ]

TYPE OF TRAFFICWAY

1 = One Lane or Ramp
2 = Two Lanes
3 = Three Lanes
4 = Four or More, Undivided
5 = Four or More, Divided
6 = Alley
7 = Driveway
8 = Other (Creeper Lane etc.)
0 = Unknown

Veh 1 [ ] Veh 2 [ ] Veh 3 [ ] Veh 4 [ ]

1 = One-Way Traffic
2 = Two-Way Traffic
0 = Unknown

Veh 1 [ ] Veh 2 [ ] Veh 3 [ ] Veh 4 [ ]

SURFACE TYPE

1 = Portland Cement Concrete
2 = Asphalt Bituminous
3 = Gravel/Rock
4 = Dirt
5 = Brick
6 = Steel (Bridge Floor)
7 = Wood (Bridge Floor)
8 = Other
0 = Unknown

Veh 1 [ ] Veh 2 [ ] Veh 3 [ ] Veh 4 [ ]

Environment

LOCALITY

1 = Business District (Central)
2 = Manufacturing District
3 = Residential District
4 = Business District (Outlying)
5 = School/Playground Zone
6 = Recreational Area
7 = Open Country (Rural)
8 = Other
9 = Parking Lot/Private Prop.
0 = Unknown

[ ]

LIGHT CONDITIONS

1 = Daylight
2 = Dusk
3 = Dawn
4 = Darkness (Roadway Lighted)
5 = Darkness (Roadway Not Lighted)
6 = Unknown

[ ]

WEATHER CONDITIONS

1 = Clear 6 = Sleet/Hail
2 = Cloudy 7 = Snow
3 = Fog 8 = Strong Wind
4 = Mist 9 = Other
5 = Rain 0 = Unknown

(Indicate up to two conditions)

[ ] [ ]

ROADWAY DEFECTS

01 = None
02 = Soft/Defective Shoulders
03 = Bump/Ruts/Holes
04 = Loose Material on Surface
05 = Road Under Construction
06 = Limited Overhead Clearance
07 = Obstruction (Unsigned/Unsignalled)
08 = Gravel/Blacktop Windrow
09 = Water Standing on Roadway
10 = Flooded Roadway
11 = Snowdrifts, One Lane Plowed
12 = Other (Explain in Narrative)

[ ]

SURFACE CONDITIONS

1 = Dry 6 = Frost
2 = Wet 7 = Mud
3 = Ice 8 = Debris
4 = Snow 9 = Other
5 = Slush 0 = Unknown

(Indicate up to two conditions)

Veh 1 [ ] [ ] Veh 2 [ ] [ ] Veh 3 [ ] [ ] Veh 4 [ ] [ ]

VEHICLE DEFECTS BEFORE CRASH

0 = Unknown 5 = Wipers
1 = None 6 = Tires
2 = Brakes 7 = Power Failure
3 = Lights 8 = Trailer Hitch
4 = Steering 9 = Other

Veh 1 [ ] Veh 2 [ ] Veh 3 [ ] Veh 4 [ ]

VISION OBSCURED

01 = Not Obscured
02 = Trees/Crops
03 = Buildings
04 = Embankment
05 = Sign/Billboard
06 = Hillcrest
07 = Parked Vehicles
08 = Moving Vehicles
09 = Person/Object in or on Vehicle
10 = Blinded by Sun or Headlights
11 = Frosted Windows or Windshield
12 = Blowing Snow
13 = Fog/Smoke/Dust
14 = Other (Explain in Narrative)
00 = Unknown

Veh 1 [ ] Veh 2 [ ] Veh 3 [ ] Veh 4 [ ]

Circumstances

ROADWAY/ENVIRONMENT RELATED CONTRIBUTING CIRCUMSTANCES

00 = Unknown
01 = None Apparent
02 = Weather Conditions
03 = Surface Conditions
04 = Roadway Defect
05 = Pedestrian Action
06 = Pedestrian Drinking
07 = Previous Accident
08 = Animal in Roadway
09 = Frost Covered Bridge Floor (Only)
10 = Traffic Control Not In Place or Not Functioning
11 = Non-Contact Vehicle
12 = Other

[ ] [ ] (Indicate up to two circumstances which caused or contributed to the accident)

APPARENT DRIVER CONDITION

1 = Apparently Normal
2 = Physical Defect
3 = Fatigued
4 = Apparently Asleep
5 = Ill
6 = Under Medication
7 = Infirmities of Age
8 = Other (Describe)
0 = Unknown

Veh 1 [ ] Veh 2 [ ] Veh 3 [ ] Veh 4 [ ]

APPARENT DRIVER SOBRIETY

1 = Had Not Been Drinking
2 = Drinking - Not Impaired
3 = Drinking - Impaired
4 = Drugs
0 = Unknown

Veh 1 [ ] Veh 2 [ ] Veh 3 [ ] Veh 4 [ ]

DRIVER/VEHICLE RELATED CONTRIBUTING CIRCUMSTANCES

(For each vehicle, indicate up to two circumstances which caused or contributed to the accident)

00 = Unknown
01 = None Apparent
02 = Ran Traffic Signal
03 = Ran Stop Sign
04 = Passed Stopped School Bus
05 = Passing Where Prohibited
06 = Passing, Interfered with Other Vehicle
07 = Left of Center, Not Passing
08 = Failed to Yield Row (FTYROW), at Uncontrolled Intersection
09 = FTYROW, From Stop Sign
10 = FTYROW, From Yield Sign
11 = FTYROW, Making Left Turn
12 = FTYROW, From Driveway
13 = FTYROW, From Parked Position
14 = FTYROW, to Pedestrian
15 = FTYROW, Other
16 = Wrong Way on One-Way Road
17 = Speed Too Fast For Conditions
18 = Exceeding Speed Limit
19 = Drag Racing
20 = Improper Turn
21 = Improper Lane Change
22 = Following too Close
23 = No Signal or Improper Signal
24 = Disregarded Railroad Signal
25 = Disregarded Warning Signal
26 = Reckless Driving
27 = Improper Backing
28 = Illegal or Improper Parking
29 = Failure to have Control
30 = Failed to Turn on Lights
31 = Driver Physical Condition
32 = Driver Drinking Condition
33 = Inattentive or Distracted
34 = Driver Confused
35 = Inexperienced Driver
36 = Vision Obscured
37 = Vehicle Defect or Faulty Equipment
38 = Oversized Vehicle
39 = Other

Veh 1 [ ] [ ] Veh 2 [ ] [ ] Veh 3 [ ] [ ] Veh 4 [ ] [ ]

DIAGRAM

DIAGRAM WHAT HAPPENED:

INDICATE NORTH

INSTRUCTIONS

Follow dotted lines to draw outline of roadway at place of accident.

Number each vehicle and show direction of travel by arrow.

→ [1] [2] ←

Use solid line to show path before accident.

→ [2]

dotted line after accident

- - → [2]

Show pedestrian by: —○

Show railroad by: ++++++

Show utility poles by: ⌀

Show motorcycle by: —○—○

INITIAL DIRECTION TRAVEL

Veh 1	Veh 2	Veh 3	Veh 4
☐	☐	☐	☐

1=North, 2=Northeast, 3=East, 4=Southeast, 5=South, 6=Southwest, 7=West, 8=Northwest, 0=Unknown

NARRATIVE

DESCRIBE WHAT HAPPENED (Refer to vehicles by number)

WITNESS

Name, Last, First	Street or RFD	City	State	Zip
Name, Last, First	Street or RFD	City	State	Zip
Name, Last, First	Street or RFD	City	State	Zip
Name, Last, First	Street or RFD	City	State	Zip

ENFORCEMENT ACTION

Driver No.	Citation No.	Statute No.	Charge	Violation of: State Code	Violation of: City Ordn	Recommend DL Reexam Yes	Recommend DL Reexam No	Vehicle to be Inspected Yes	Vehicle to be Inspected No
				☐	☐	☐	☐	☐	☐
				☐	☐	☐	☐	☐	☐
				☐	☐	☐	☐	☐	☐
				☐	☐	☐	☐	☐	☐
				☐	☐	☐	☐	☐	☐

Was Investigation Made at Scene? ☐ 1=Yes 2=No

Investigation Completed? ☐ 1=Yes 2=No

Police Photos Taken at Scene? ☐ 1=Yes 2=No

Reports Given To All Drivers ☐ 1=Yes 2=No

This Location Needs: ☐ 1=Selective Enforcement 2=Engineering Study 3=Road Maintenance 4=Other 5=No Recommendation

OFFICER COMMENTS CONCERNING LOCATION NEEDS

Time Officer Notified of Accident _____ ☐ A.M. ☐ P.M. Date

Time Officer Arrived At Scene _____ ☐ A.M. ☐ P.M. Date

Signature of Officer | Badge No.

Name of Department | Date of Report

Report Reviewed by | Date Reviewed